

COST

EUROPEAN COOPERATION IN THE FIELD OF SCIENTIFIC AND TECHNICAL RESEARCH



COST COLLECTED AGREEMENTS
VOLUME 4 □ 1985-1986

COST

Collected Agreements
concluded within the framework of European cooperation
in the field of scientific and technical research

Volume 4
1985-1986

COST SECRETARIAT
GENERAL SECRETARIAT OF THE COUNCIL OF THE EUROPEAN
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Foreword

This publication is the fourth volume of a collection which includes all the agreements concluded within the framework of European cooperation in the field of scientific and technical research, better known by its abbreviation COST.

There are 19 participant States in this form of cooperation, which was inaugurated in 1969 at the initiative of the Council of the European Communities, namely:

Belgium — Denmark — Federal Republic of Germany — Greece — Spain — France — Ireland — Italy — Yugoslavia — Luxembourg — the Netherlands — Norway — Austria — Portugal — Switzerland — Finland — Sweden — Turkey — United Kingdom.

It enjoys special arrangements for cooperation with the Community as such, which, moreover, provides it with secretariat and infrastructure services.

The fields covered by COST cooperation in this volume are as follows:

1. Informatics
2. Telecommunications
3. Transport
4. Oceanography
5. Metallurgy and materials science
6. Environmental protection
7. Meteorology
8. Agriculture
9. Food technology
10. Medical and public health research

The COST agreements are divided into four separate categories of cooperation:

CATEGORY I:

Community R&D programmes, adopted on the basis of the Treaties establishing the Communities, in which non-Community COST States may be involved;

CATEGORY II:

Projects initiated within the COST framework and in which the Community as such participates alongside the non-Community COST States;

CATEGORY III:

Projects initiated within the COST framework and in which the Community as well as its Member States and the non-Community COST States participate;

CATEGORY IV:

Projects initiated within the COST framework and in which COST States, whether or not members of the Community, participate, but not the Community as such.

The COST Agreements take very varied legal forms, ranging from international conventions in the classical sense to Memoranda of Understanding, the latter constituting an original instrument evolved within the COST framework itself.

More detailed information on COST cooperation is contained in a booklet published by the General Secretariat of the Council of the European Communities in November 1981 and also in a pamphlet shortly to be issued by participating States in which points of contact at the national level will be indicated for those organizations wishing to obtain more detailed information on COST.

We hope that this collection will meet the desires frequently expressed by all those interested in COST cooperation to have a regular source of detailed information on the agreements concluded in the COST framework.

This collection also shows to what extent COST continues to be a vital and important vehicle for promoting scientific and technical cooperation throughout Western Europe, a role which I am convinced it will fulfil for many years to come.

Brussels, January 1987

EMILIO MUÑOZ RUIZ
Chairman, COST Senior Officials

Abbreviations

EC	European Communities
ECSC	European Coal and Steel Community
EEC	European Economic Community
EAEC	European Atomic Energy Community (Euratom)
ESA	European Space Agency
Comac	Steering Committee on Concerted Action
Crest	Scientific and Technical Research Committee
JAF	Working Party on Legal, Administrative and Financial Questions
OECD	Organization for Economic Cooperation and Development

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**Memorandum of Understanding
for the implementation of
a European research project
on methods for the planning and evaluation
of multiservice telecommunication networks**

(COST Project 214)

Memorandum of Understanding for the implementation of a European research project on methods for the planning and evaluation of multiservice telecommunication networks

(COST Project 214)

The Signatories to this Memorandum of Understanding, declaring their common intention to take part in a European research project on methods for the planning and evaluation of multiservice telecommunication networks have reached the following understandings:

Section 1

1. The Signatories intend to cooperate in a project to promote research into the field of methods for the planning and evaluation of multiservice telecommunication networks, hereinafter referred to as the 'Project'.

2. The main objective of the Project is to coordinate and advance European research into the study of various aspects of multiservice telecommunication networks. The research will cover service demand models, network design methods and performance evaluation models. These models will serve as a basis for the design and planning of future multiservice networks within Europe.

3. The Signatories hereby declare their intention of carrying out the Project jointly, in accordance with the general description given in Annex II, adhering as far as possible to a timetable to be decided by the Management Committee referred to in Annex I.

4. The Project will be carried out through concerted action, in accordance with the provisions of Annex I.

5. The overall value of the activities of the Signatories under the Project is estimated at approximately 155 000 ECU per Signatory at 1984 prices.

6. The Signatories will make every effort to ensure that the necessary funds are made available under their internal financing procedures.

Section 2

Signatories intend to take part in the Project in one or several of the following ways:

- (a) by carrying out studies and research in their technical services or public research establishments (hereinafter referred to as 'public research establishments');
- (b) by concluding contracts for studies and research with organizations (hereinafter referred to as 'research contractors');
- (c) by contributing to the provision of a Secretariat and/or other coordinatory services or activities necessary for the aims of the Project to be achieved;
- (d) by making information on existing relevant research, including all necessary basic data, available to other Signatories;
- (e) by arranging for inter-laboratory visits and by cooperating in a small-scale exchange of staff in the later stages.

Section 3

1. This Memorandum of Understanding will take effect for three years on its signing by at least four Signatories.

2. This Memorandum of Understanding may be amended in writing at any time by arrangement between the Signatories.

3. A Signatory which intends, for any reason whatsoever, to terminate its participation in the Project will notify the Secretary-General of the Council of the European Communities of its intention as soon as possible, preferably not later than three months beforehand.

4. If at any time the number of Signatories falls below four the Management Committee referred to in Annex I will examine the situation which has arisen and will consider whether or not this Memorandum of Understanding should be terminated by decision of the Signatories.

Section 4

1. This Memorandum of Understanding will, for a period of six months from the date of the first signing, remain open for signing, by the governments which took part in the Ministerial Conference held in Brussels on 22 and 23 November 1971 and also by the European Communities.

The governments referred to in the first subparagraph, and the European Communities may take part in the Project on a provisional basis during the abovementioned period, even though they may not have signed this Memorandum of Understanding.

2. After this period of six months has elapsed, applications to sign this Memorandum of Understanding from the governments referred to in paragraph 1 or from the European Communities will be decided upon by the Management Committee re-

ferred to in Annex I, which may attach special conditions thereto.

3. Any Signatory may designate one or more competent public authorities or bodies to act on its behalf in respect of the implementation of the Project.

Section 5

This Memorandum of Understanding is of an exclusively recommendatory nature. It will not create any binding legal effect in public international law.

Section 6

1. The Secretary-General of the Council of the European Communities will inform all Signatories of the signing dates and date of entry into effect of this Memorandum of Understanding and will forward to them all notices which he has received under this Memorandum of Understanding.

2. This Memorandum of Understanding will be deposited with the General Secretariat of the Council of the European Communities. The Secretary-General will transmit a certified copy to each of the Signatories.

Done at Brussels on the thirteenth day of February in the year one thousand nine hundred and eighty-five.

ANNEX I

Coordination of the Project

CHAPTER I

1. A Management Committee (hereinafter referred to as 'the Committee') will be set up, composed of not more than two representatives for each Signatory. Each representative may be accompanied by such experts or advisers as he or she may need.

The governments which took part in the Ministerial Conference held in Brussels on 22 and 23 November 1971 and the European Communities may, in accordance with the second subparagraph of Section 4 (1) of the Memorandum of Understanding, participate in the work of the Committee before becoming Signatories to the Memorandum without, however, having the right to vote.

When the European Communities are not a Signatory to the Memorandum of Understanding, a representative of the Commission of the European Communities may attend Committee meetings as an observer.

2. The Committee will be responsible for coordinating the Project and in particular, for making the necessary arrangements for:

- (a) the choice of research topics on the basis of those provided for in Annex II, including any modifications submitted to Signatories by the competent public authorities or bodies; any proposed changes to the Project framework will be referred for an opinion to the Technical Committee 'Telecommunications' (COST);
- (b) advising on the direction which work should take;
- (c) drawing up detailed plans and defining methods for the different phases of execution of the Project;
- (d) coordinating the contributions referred to in subparagraph (c) of Section 2 of the Memorandum of Understanding;
- (e) keeping abreast of the research being done in the territory of the Signatories and in other countries;
- (f) liaising with appropriate international bodies;
- (g) exchanging research results among the Signatories to the extent compatible with adequate safeguards for the interests of Signatories, their competent public authorities or bodies and research contractors in respect of industrial property rights and commercially confidential material;
- (h) drawing up the annual interim reports and the final report to be submitted to the Signatories and circulated as appropriate; drawing up a non-confidential report to be submitted annually to the Technical Committee 'Telecommunications' (COST);
- (i) dealing with any problem which may arise out of the execution of the Project, including those relating to possible special conditions to be attached to accession to the Memorandum of Understanding in the case of applications submitted more than six months after the date of the first signing.

3. The Committee will establish its rules of procedure.

4. The Secretariat of the Committee will be provided at the invitation of the Signatories by either the Commission of the European Communities or one of the Signatory States.

CHAPTER II

1. Signatories will invite public research establishments or research contractors in their territories to submit proposals for research work to their respective competent public authorities or bodies. Proposals accepted under this procedure will be submitted to the Committee.

2. Signatories will request public research contractors, before the Committee takes any decision on a proposal, to submit to the public authorities or bodies referred to in paragraph 1 notification of previous commitments and industrial property rights which they consider might preclude or hinder the execution of the Projects of the Signatories.

CHAPTER III

1. Signatories will request their public research establishments or research contractors to submit periodical progress reports and a final report.

2. The progress reports will be distributed to the Signatories only, through their representatives on the Committee. The Signatories will treat these progress reports as confidential and will not use them for purposes other than research work. The final reports on the results obtained will have much wider circulation, covering at least the Signatories' public research establishments or research contractors concerned.

CHAPTER IV

1. In order to facilitate the exchange of results referred to in Chapter I, paragraph 2 (g), and subject to national law, Signatories intend to ensure, through the inclusion of appropriate terms in research contracts, that the owners of industrial property rights and technical information resulting from work carried out in implementation of that part of the Project assigned to them under Annex II (hereinafter referred to as 'the research results') will be under an obligation, if so requested by another Signatory (hereinafter referred to as 'the applicant Signatory'), to supply the research results and to grant to the applicant Signatory or to a third party nominated by the applicant Signatory a licence to use the research results and such technical know-how incorporated therein as is necessary for such use if the applicant Signatory requires the granting of a licence for the execution of:

- (a) work in respect of the Project;
- (b) research and development work within the framework of the applicant Signatory's projects in the same field;
- (c) research and development work within the framework of any associated European project undertaken subsequently and in which all or several of the Signatories may be prepared to take part.

Such licences will be granted on fair and reasonable terms, having regard to commercial usage.

2. Signatories will, by including appropriate clauses in contracts placed with research contractors, provide for the licence referred to in paragraph 1 to be extended on fair and reasonable terms, having regard to commercial usage, to previous industrial property rights and to prior technical know-how acquired by the research contractor insofar as the research results could not otherwise be used for the purpose referred to in paragraph 1.

Where a research contractor is unable or unwilling to agree to such extension, the Signatory will submit the case to the Committee, before the contract is concluded; hereafter, the Committee will state its position on the case, if possible after having consulted the interested parties.

3. Signatories will take any steps necessary to ensure that the fulfilment of the conditions laid down in the present Chapter will not be affected by any subsequent transfer of rights to ownership of the research results. Any such transfer will be notified to the Committee.

4. If a Signatory terminates its participation in the Project, any rights of use which it has granted, or is obliged to grant, to, or has obtained from, other Signatories in application of the Memorandum of Understanding and concerning work carried out up to the date on which the said Signatory terminates its participation will continue thereafter.

5. The provisions of paragraphs 1 to 4 will continue to apply after the period of operation of the Memorandum of Understanding has expired and will apply to industrial property rights as long as these remain valid, and to unprotected inventions and technical know-how until such time as they pass into the public domain other than through disclosure by the licensee.

General description of the work planned for the Project

1. Introduction

From both a theoretical and a practical point of view much attention has been paid in the past to telephone traffic and public telephone networks. This is true for individual research institutes as well as for international frameworks. An example in this respect, carried out within the context of European cooperation, is COST Project 201, which was finalized successfully in 1983.

Technological developments have led and are leading to new concepts for telephone networks, but also for new services which generate a vast number of technical and mathematical problems.

Economic factors also play an important role in the process of reconsidering the existing network concepts.

From a user point of view the quality of service is of predominant importance, thus stressing the need for reliable networks, which influences heavily the design of future networks.

In order to cope with the new developments traffic engineers, network designers and planners need adequate mathematical tools. Some of these should cover the statistical aspects of new types of traffic. Other ones should apply to the traffic handling characteristics of service systems. At a network level there is a need for routing and optimization models, taking into account service and reliability requirements.

European research in this area has started, in a limited sense, with COST 201. It is natural and necessary that this research continues and focuses its attention on network concepts which eventually will be implemented within the European countries.

2. Objectives of the Project

The main objectives of the Project are:

- (a) to coordinate and advance European research into methods for the planning and evaluation of multiservice telecommunication networks;
- (b) to carry out research into various subfields of application, such as service demand modelling, network dimensioning and cost/performance evaluation;
- (c) to provide methods and models, enabling a balanced development of European national telecommunication networks;
- (d) to provide a basis for further integration of European research activities in the field of telecommunications.

The Project results will be delivered in the form of research papers, containing:

- (i) model descriptions,
- (ii) algorithms,
- (iii) validation reports,
- (iv) documented computer programs (whenever appropriate).

3. Scope of the Project

COST Project 214 is a European collaborative research project concerned with the modelling of multiservice networks.

The Project will be involved in the following major aspects:

- (a) Preparatory work — to produce a formal description of service demand characteristics and network functions and capabilities;
- (b) Research and development work — definition of service requirement models,
 - development of design and dimensioning methods,
 - development of methods for cost and performance evaluation.

4. Appropriate form of cooperation

The suggested form of cooperation is that Signatories are represented in the Management Committee by delegates who should be expected to:

- (a) attend and contribute to meetings of the Management Committee; these meetings typically numbering four annually;
- (b) be involved in an active programme in the framework of the project objective and time scale;
- (c) be responsible for liaising between the Management Committee and its national research groups.

Insofar as considered necessary the Management Committee may arrange working sessions for participating researchers, where results can be presented and discussed, either on an *ad hoc* or regular basis.

5. Technical programme

The logical structure of the technical programme is as follows:

- (a) description of the telecommunication services and network characteristics to be included in the Project;
- (b) selection and formulation of the problems to be considered and investigation of their feasibility;
- (c) development of solution methods, based on an analytical or simulation approach;
- (d) validation and documentation of the results.

The models to be developed will serve as a means to state the problems to be solved unambiguously. They will also be used to apply and verify the methods to be designed.


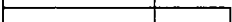

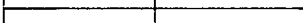
Because the number of problems to be considered is virtually infinite, for practical reasons a priority list of interconnected topics will be set up and maintained.

This list will be used as a guideline during the execution and management of the Project.

6. Schedule of activities of the Project

The technical programme will be carried out over a three-year period.

The following time schedule will serve as a basis for the major activities, mentioned in paragraph 5:

Major activity	Year after start of the Project		
	1	2	3
Descriptions			
Problem selection and formulation			
Development of methods			
Validation and documentation			

During the course of the Project some natural feedbacks may occur between these major activities.

7. Envisaged cost of the activities in the Project

The overall cost per Signatory for a three-year period of the Project is estimated as follows:

	Man years	ECU ¹
Work of the Committee	0.5	20 000
Research work	3.0	120 000
Travel expenses	—	15 000
Total	3.5	155 000

¹ Based on 40 000 ECU per man year.

**Memorandum of Understanding
for the implementation of
a European research project
on methods for the planning and evaluation
of multiservice telecommunication networks**

(COST Project 214)

Date of entry into force of the action: 13.2.1985

Duration: 12.2.1988

Contracting Parties	Date of signing	Date of entry into force
Denmark	13.2.1985	13.2.1985
France	13.2.1985	13.2.1985
Ireland	13.8.1985	13.8.1985
Italy	12.3.1986	12.3.1986
Netherlands	13.2.1985	13.2.1985
Portugal	13.8.1985	13.8.1985
United Kingdom	13.2.1985	13.2.1985
Finland	13.2.1985	13.2.1985
Sweden	13.2.1985	13.2.1985

**Community-COST Concertation Agreement
on five concerted action projects
in the field of environment**

(COST Projects 611, 641, 681, 647, 612)

Council Decision
of 10 December 1984
concerning the conclusion of a Community-COST
Concertation Agreement on five concerted
action projects in the field of environment
(84/639/EEC)¹

THE COUNCIL OF THE EUROPEAN COMMUNITIES,

Having regard to the Treaty establishing the European Economic Community,

HAVING regard to Council Decision 81/213/EEC of 3 March 1981 adopting a sectoral research and development programme in the field of environment (environmental protection and climatology) — indirect and concerted actions — (1981 to 1985)² as revised by Decision 84/139/EEC³, and in particular Article 8 (1) thereof,

HAVING regard to the proposal from the Commission,

WHEREAS, pursuant to Article 8 (2) of Decision 81/213/EEC, the Commission has negotiated an Agreement with some third States involved in European cooperation in the field of scientific and technical research (COST) with a view to associating them wholly or partly with this programme;

WHEREAS this Agreement should be approved,

HAS DECIDED AS FOLLOWS:

Article 1

The Community-COST Concertation Agreement on five concerted action projects in the field of environment is hereby approved on behalf of the European Economic Community.

The text of the Agreement is attached hereto.

¹ OJ No L 339, 27. 12. 1984.

² OJ No L 101, 11. 4. 1981.

³ OJ No L 71, 14. 3. 1984.

Article 2

The President of the Council is hereby authorized to designate the persons empowered to sign the Agreement in order to bind the Community.

Done at Brussels, 10 December 1984.

For the Council

The President

A. DUKES

Community-COST Concertation Agreement on five concerted action projects in the field of environment

(COST Projects 611, 641, 681, 647, 612)

THE EUROPEAN ECONOMIC COMMUNITY, hereinafter referred to as 'the Community',

THE SIGNATORY STATES TO THIS AGREEMENT, hereinafter referred to as 'the participating non-member States',

WHEREAS European cooperation in the field of environment is likely to contribute effectively to the reduction of environmental pollution and to a more economic use of natural resources;

WHEREAS a Community-COST Concertation Agreement on a concerted action project on physico-chemical behaviour of atmospheric pollutants (COST Project 61a bis) was concluded between the Community, Austria, Sweden, Switzerland and Yugoslavia on 27 March 1980 and expired on 31 December 1983;

WHEREAS a Community-COST Agreement on a concerted action project on analysis of organic micropollutants in water (COST Project 64b bis) was concluded between the Community, Spain, Norway, Portugal, Sweden, Switzerland and Yugoslavia on 27 March 1980 and expired on 31 December 1983;

WHEREAS a Community-COST Concertation Agreement on a concerted action project on treatment and use of sewage sludge (COST Project 68 ter) was concluded between the Community, Austria, Finland, Norway, Sweden and Switzerland on 16 February 1982 and expired on 31 December 1983;

WHEREAS a Memorandum of Understanding on a European research project on benthic coastal ecology (COST Project 47), carried out in the framework of European cooperation in the field of scientific and technical research (COST) was signed by the Community, Belgium, Denmark, France, Germany, Ireland, the Netherlands, the United Kingdom, Spain, Norway, Portugal and Sweden on 5 April 1979 and expired on 4 April 1984;

WHEREAS the abovementioned concerted action projects have produced very encouraging results;

WHEREAS by its Decision of 3 March 1981 the Council of the European Communities adopted a sectoral research and development programme in the field of environment (environmental protection and climatology) — indirect and concerted actions — (1981-85);

WHEREAS by its Decision of 1 March 1984 the Council of the European Communities adopted the revision of the programme adopted by its Decision of 3 March 1981 and this revision includes five concerted action projects respectively on physico-chemical behaviour of atmospheric pollutants, hereinafter referred to as 'COST Project 611', organic micropollutants in the aquatic environment, hereinafter referred to as 'COST Project 641', treatment and use of organic sludges and liquid agricultural wastes, hereinafter referred to as 'COST Project 681', benthic coastal ecosystems, hereinafter referred to as 'COST Project 647' and air pollution effects on terrestrial and aquatic ecosystems, hereinafter referred to as 'COST Project 612';

WHEREAS the Member States of the Community and the participating non-member States, hereinafter referred to as 'the States', intend, subject to the rules and procedures

applicable to their national programmes, to carry out the research described in Annex A and are prepared to integrate such research into a process of concertation which they consider will be of mutual benefit;

WHEREAS the implementation of the research covered by the concerted action projects will require a financial contribution of approximately 60 million ECU from the States,

HAVE AGREED AS FOLLOWS:

Article 1

The Community and the participating non-member States, hereinafter referred to as 'the Contracting Parties', shall participate for a period extending until 31 December 1985 in one or more of the following concerted action projects: COST Project 611, COST Project 641, COST Project 681, COST Project 647 and COST Project 612.

These Projects shall consist in concertation between the Community concerted action programmes and the corresponding programmes of the participating non-member States. Research topics covered by this Agreement are listed in Annex A.

The States shall remain entirely responsible for the research carried out by their national institutions or bodies.

Article 2

Concertation between the Contracting Parties shall be effected through Community-COST Concertation Committees, one for each Project, hereinafter referred to as 'the Committees'.

The Committees shall draw up their rules of procedure. Their Secretariats will be provided by the Commission of the European Communities, hereinafter referred to as 'the Commission'.

The terms of reference and the composition of these Committees are defined in Annex B.

Article 3

In order to ensure optimum efficiency in the execution of these concerted action projects, project leaders may be appointed by the Commission in agreement with the delegates of the participating non-member States on the Committees.

Article 4

The estimated financial contributions by the Contracting Parties to the coordination costs for the period referred to in the first paragraph of Article 1 shall be:

COST Project 611: 260 000 ECU from the Community,
26 000 ECU from each participating non-member State;

COST Project 641: 260 000 ECU from the Community,
26 000 ECU from each participating non-member State;

COST Project 681: 260 000 ECU from the Community,
26 000 ECU from each participating non-member State;

COST Project 647: 260 000 ECU from the Community,
26 000 ECU from each participating non-member State;

COST Project 612: 260 000 ECU from the Community,
26 000 ECU from each participating non-member State.

The ECU is that defined by the Financial Regulation in force applicable to the general budget of the European Communities and by the financial arrangements adopted pursuant thereto.

The rules governing the financing of the Agreement are set out in Annex C.

Article 5

1. Through the Committees, the States shall exchange regularly all useful information resulting from the execution of the research covered by the concerted action projects. They shall also endeavour to provide information on similar research planned or carried out by other bodies. Any information shall be treated as confidential if the State which provides it so requests.

2. In agreement with the Committees, the Commission shall prepare annual progress reports on the basis of the information supplied and shall forward them to the States.

3. At the end of the concertation period, the Commission shall, in agreement with the Committees, forward to the non-member States the general reports on the execution and results of the projects. These reports shall be published by the Commission not later than six months after they have been forwarded, unless one of those States objects. In that case the reports shall be treated as confidential and shall be forwarded, on request and with the agreement of the Committees, solely to the institutions and undertakings whose research or production activities justify access to knowledge resulting from the performance of the research covered by the concerted action projects.

Article 6

1. This Agreement shall be open for signature by the Community and by the non-member States which took part in the Ministerial Conference held in Brussels on 22 and 23 November 1971.

2. As a condition precedent to its participation in the concerted action projects defined in Article 1, each of the Contracting Parties shall, when signing this Agreement, have notified the Secretary-General of the Council of the European Communities of the concerted action projects in which it intends to participate and, after signing this Agreement, have notified the Secretary-General of the Council of the European Communities not later than 30 June 1985 of the completion of the procedures necessary under its internal provisions for the implementation of this Agreement.

3. For the Contracting Parties which transmit the latter notification provided for in paragraph 2, this Agreement shall come into force on the first day of the month following that in which the Community

and at least one of the participating non-member States transmitted these notifications.

For those Contracting Parties which transmit the notification after the entry into force of this Agreement, it shall come into force on the first day of the second month following the month in which the notification was transmitted.

Contracting Parties which have not transmitted this notification when this Agreement comes into force shall be able to take part in the work of the Committee without voting rights until 30 June 1985.

4. The Secretary-General of the Council of the European Communities shall inform each of the Contracting Parties of the notifications made pursuant to paragraph 2 and of the date of entry into force of this Agreement.

Article 7

This Agreement shall apply, on the one hand, to the territories in which the Treaty establishing the European Economic Community is applied and under the conditions laid down in that Treaty and, on the other hand, to the territories of the participating non-member States.

Article 8

This Agreement, drawn up in a single original in the Danish, Dutch, English, French, German, Greek and Italian languages, each text being equally authentic, shall be deposited in the archives of the General Secretariat of the Council of the European Communities which shall transmit a certified copy to each of the Contracting Parties.

Done at Brussels on the thirteenth day of March in the year one thousand nine hundred and eighty-five.

Research topics covered by the Agreement

COST Project 611 — Physico-chemical behaviour of atmospheric pollutants

1. Improvement of standardization of analytical methods, especially for NO_x , hydrocarbons and photochemical oxidants.
2. Elucidation of mechanisms and rate constants of the reactions between atmospheric pollutants and of their reactions with natural constituents of the atmosphere, in particular in the aqueous state, including: oxidation and degradation chemistry of selected atmospheric pollutants in fresh and sea water, reactions with soil constituents, and the investigation of catalytic processes in cloud and rainwater chemistry.
3. Investigation of the physico-chemical processes leading to the formation of particles, characterization of the chemical and physical nature of very fine aerosols, and determination of the chemical composition of aerosols.
4. Identification and quantification of sources and sinks of various pollutants, especially for nitrogen oxides.
5. Investigation of phenomena leading to 'acid deposition' with particular emphasis on:
 - (a) conversion, transport and deposition (dry and wet) of SO_2 , NO_x and aerosol particles;
 - (b) analysis of precipitation chemistry data for acidity trends;
 - (c) NO_x chemistry in cloud droplets and chemical composition of cloud and rain water;
 - (d) dry deposition of NO_x and HNO_3 ;
 - (e) the role of oxidizing agents like OH , HO_2 , H_2O_2 ;
 - (f) physico-chemical conversion of air pollutants after deposition, considering water bodies and soil;
 - (g) analytical techniques for the measurement of ammonia, nitric acid and hydrogen peroxide in both gas and liquid phase at low concentrations;
 - (h) analytical methods for the determination of acidity of aerosols.
6. Modelling of the diffusion of heavy gases (chlorine, phosgene, hydrocarbons, solvents) after accidental release, including development of three-dimensional models and testing in wind tunnels and under field conditions.
7. Elaboration of test protocols which enable abiotic degradability of chemicals to be predicted, in particular for persistent compounds.

COST Project 641 — Organic micropollutants in the aquatic environment

1. Analytical methodologies and data treatment:
 - (a) basic analytical techniques, including sampling and sample treatment, gas chromatography, high-pressure liquid chromatography, mass spectrometry;
 - (b) specific analytical problems, in particular analysis of selected classes of compounds, such as those likely to be regulated by Directive 76/464/EEC, chlorinated paraffins, tensides, optical brighteners and metal-organic compounds;

- (c) collection and treatment of analytical data.
- 2. Physical/chemical behaviour of organic micropollutants in the aquatic environment:
 - (a) distribution and transport mechanisms;
 - (b) structure/activity relationships;
 - (c) bioavailability and bioaccumulation.
- 3. Transformation reactions in the aquatic environment:
 - (a) chemical and photochemical reactions;
 - (b) biological transformations.
- 4. Behaviour and transformation of organic micropollutants in water treatment processes:
 - (a) infiltration;
 - (b) waste water treatment;
 - (c) drinking water treatment (including haloform formation).

COST Project 681 — Treatment and use of organic sludges and liquid agricultural wastes

- 1. Treatment of sludges and agricultural wastes:
 - (a) further improvement of conventional treatment methods, mainly with regard to their economic aspects and of processes for biogas production from sludges and manures;
 - (b) study of technologies specifically applicable to small plants and of processes to eliminate heavy metals at their source.
- 2. Analysis of sludges and residues:
 - (a) development and standardization of economic multi-element methods for the analysis of trace elements in sludges, soils and plants, and for the analysis of organic pollutants.
- 3. Hygienic aspects of treatment and use of sludges:
 - (a) elaboration and improvement of methods for the detection and identification of bacteria, viruses and other pathogens, and study of their survival and contamination potential;
 - (b) investigations of the efficiency of hygienization processes, definition of 'indicator organisms'.
- 4. Nuisances:
 - (a) odour characterization and emission control.
- 5. Environmental effects of spreading of sludges and manure:
 - (a) long-term field experiments on the accumulation of heavy metals, their availability to crops and on transfer of pollutants via soil to plants, and assessment of various application methods with regard to ground and surface water pollution.
- 6. Improvement of land-use of sludge and manure:

- (a) long-term field experiments on fertilizing value and soil improvement properties of sludges and manures;
- (b) improvement of treatment processes and spreading equipment with regard to optimum land use;
- (c) study of the agricultural value of residues from treatment processes;
- (d) use of sludges and derived products for land reclamation and specific crops (e.g. biomass production).

7. Use of ecosystems residues as animal feed.

COST Project 647 — Benthic coastal ecosystems

Implementation of 'baseline-studies' for selected key species in undisturbed conditions along the European North Sea and Atlantic coast, in the Mediterranean and in the Baltic Sea for the following habitats:

- (a) subtidal sediments;
- (b) intertidal sediments;
- (c) subtidal rock;
- (d) intertidal rock.

Assessment of the role of:

- (a) local physical factors;
- (b) biological interactions;
- (c) climatic and hydrographic factors on the population dynamics of selected components of benthic coastal ecosystems.

COST Project 612 — Air pollution effects on terrestrial and aquatic ecosystems

1. Direct effect of air pollutants (SO₂, NO_x, HCl, ozone, photo-chemical oxidants and their atmospheric reaction products) on plants and terrestrial ecosystems.
2. Indirect effects of such air pollutants on plants and terrestrial ecosystems, e.g. via the acidification of soil and the mobilization of phytotoxic elements.
3. Links between the effects of air pollutants and other factors involved in the observed phenomenon of severely damaged terrestrial ecosystems, in particular forests, such as drought, plant diseases, fungi and pests.
4. Effects of air pollutants and their reaction products on crop plants, in particular reduced productivity.
5. Effects of air pollutants and their reaction products on aquatic ecosystems (reduction of the population of fish and other aquatic organisms due to acidification and mobilization of trace elements).

ANNEX B

Terms of reference and composition of each Community-COST Concertation Committee

1. The Committee shall:
 - 1.1. contribute to the optimum execution of the Project by giving its opinion on all aspects of its progress;
 - 1.2. evaluate the results of the Project and draw conclusions regarding their application;
 - 1.3. be responsible for the exchange of information provided for in Article 5(1) of the Agreement;
 - 1.4. suggest guidelines to the Project leader, if any.
2. The Committee's reports and the opinions shall be communicated to the States.
3. The Committee shall be composed of one delegate from the Commission, as coordinator of the Community concerted action project, one delegate from each participating non-member State, one delegate from each Member State representing its national programme and the Project leader, if any. Each delegate may be accompanied by experts.

ANNEX C

Financing Rules

Article 1

These provisions lay down the financial rules referred to in Article 4 of the Community-COST Concertation Agreement.

Article 2

At the beginning of each financial year, the Commission shall send to each participating non-member State a call for funds corresponding to the number of concerted action projects in which it participates and to its share of the annual coordination costs under the Agreement, calculated in proportion to the amounts laid down in Article 4 of the Agreement.

This contribution shall be expressed both in ECU and the currency of the participating non-member State concerned, the value of the ECU being defined in the Financial Regulation applicable to the general budget of the European Communities and determined on the date of the call for funds.

The total contributions shall cover the travel and subsistence costs of the delegates to the Committee, in addition to the coordination costs proper.

Each participating non-member State shall pay its annual contribution to the coordination costs under the Agreement at the beginning of each year, and by 31 March at the latest. Any delay in the payment of the annual contribution shall give rise to the payment of interest by the participating non-member State concerned at a rate equal to the highest discount rate ruling in the States on the due date. The rate shall be increased by 0.25 of a percentage point for each month of delay. The increased rate shall be applied to the entire period of delay. However, such interest shall be chargeable only if payment is effected more than three months after the issue of a call for funds by the Commission.

Article 3

The funds paid by participating non-member States shall be credited to the concerted action projects in which they participate as budget receipts allocated to a heading in the statement of revenue of the general budget of the European Communities (Commission section).

Article 4

The provisional timetable for the coordination costs referred to in Article 4 of the Agreement is appended hereto.

Article 5

The Financial Regulation in force applicable to the general budget of the European Communities shall apply to the management of the appropriations.

Article 6

At the end of each financial year, a statement of appropriations for each concerted action project shall be prepared and transmitted to the participating non-member States for information.

APPENDIX

Provisional timetable for concerted action projects (COST 611-641-681-647-612)

ECU

	1984		1985		Total	
	CA	PA	CA	PA	CA	PA
I Initial estimate of overall requirements:						
(a) Staff	—	—	—	—	—	—
(b) Administrative operating expenditure	550 000	550 000	750 000	750 000	1 300 000	1 300 000
(c) Contracts	—	—	—	—	—	—
Total	550 000	550 000	750 000	750 000	1 300 000	1 300 000
II Revised estimate of expenditure taking into account additional requirements arising from the accession of participating non-member States:						
(a) Staff	—	—	—	—	—	—
(b) Administrative operating expenditure	550 000 + (n x 11 000)	550 000 + (n x 11 000)	750 000 + (n x 15 000)	750 000 + (n x 15 000)	1 300 000 + (n x 26 000)	1 300 000 + (n x 26 000)
(c) Contracts	—	—	—	—	—	—
New total	550 000 + (n x 11 000)	550 000 + (n x 11 000)	750 000 + (n x 15 000)	750 000 + (n x 15 000)	1 300 000 + (n x 26 000)	1 300 000 + (n x 26 000)
III Difference between (I) and (II) to be covered by contributions from participating non-member States	n x 11 000	n x 11 000	n x 15 000	n x 15 000	n x 26 000	n x 26 000

n = number of participating non-member States.

CA = commitment appropriations.

PA = payment appropriations.

**Community-COST Concertation Agreement
on five concerted action projects
in the field of environment**

(COST Projects 611, 641, 681, 647, 612)

Decision of Community programmes: 3.3.1981

Date of entry into force of the action: 1.4.1985

Duration: 31.12.1986

Contracting Parties	Date of signing	Date of entry into force
EC	13.3.1985	13.3.1985
Norway	13.3.1985	13.3.1985
Finland	21.3.1985	21.3.1985
Switzerland	13.6.1985	13.6.1985
Sweden	25.4.1985	25.4.1985

**Memorandum of Understanding
for the implementation of a European research project
on high bit rate optical fibre systems**

(COST Project 215)

Memorandum of Understanding for the implementation of a European research project on high bit rate optical fibre systems

(COST Project 215)

The Signatories to this Memorandum of Understanding, declaring their common intention to take part in a European research project on optical fibre systems have reached the following understandings:

Section 1

1. The Signatories intend to cooperate in a project to promote research into the field of high bit rate optical fibre systems hereinafter referred to as the 'Project'.
2. The main objective of the Project is to study and define the systems for the transmission of signals in the Gbit/s range using either intensity modulation, direct detection or coherent techniques.
3. The Signatories hereby declare their intention of carrying out the Project jointly, in accordance with the general description given in Annex II, adhering as far as possible to a timetable to be decided by the Management Committee referred to in Annex I.
4. The Project will be carried out through concerted action, in accordance with the provisions of Annex I.
5. The overall value of the activities of the Signatories under the Project is estimated at approximately 2.4 million ECU overall at 1984 prices.
6. The Signatories will make every effort to ensure that the necessary funds are made available under their internal financing procedures.

Section 2

Signatories intend to take part in the Project in one or several of the following ways:

- (a) by carrying out studies and research in their technical services or public research establishments (hereinafter referred to as 'public research establishments');
- (b) by concluding contracts for studies and research with organizations (hereinafter referred to as 'research contractors');
- (c) by contributing to the provision of a Secretariat and/or other coordinatory services or activities necessary for the aims of the Project to be achieved;
- (d) by making information on existing relevant research, including all necessary basic data, available to other Signatories;
- (e) by arranging for inter-laboratory visits and by cooperating in a small-scale exchange of staff in the later stages.

Section 3

1. This Memorandum of Understanding will take effect for five years on its signing by at least four Signatories.
2. This Memorandum of Understanding may be amended in writing at any time by arrangement between the Signatories.
3. A Signatory which intends, for any reason whatsoever, to terminate its participation in the Project will notify the Secretary-General of the Council of the European Communities of its intention as soon as possible, preferably not later than three months beforehand.
4. If at any time the number of Signatories falls below four, the Management Committee referred to in Annex I will examine the situation which has arisen and will consider whether or not this Memorandum of Understanding should be terminated by decision of the Signatories.

Section 4

1. This Memorandum of Understanding will, for a period of six months from the date of the first signing, remain open for signing, by the governments which took part in the Ministerial Conference held in Brussels on 22 and 23 November 1971 and also by the European Communities.

The governments referred to in the first subparagraph, and the European Communities may take part in the Project on a provisional basis during the abovementioned period, even though they may not have signed this Memorandum of Understanding.

2. After this period of six months has elapsed, applications to sign this Memorandum of Understanding from the governments referred to in paragraph 1 or from the European Communities will be decided upon by the Management Committee referred to in Annex I, which may attach special conditions thereto.

3. Any Signatory may designate one or more competent public authorities or bodies to act on its

behalf in respect of the implementation of the Project.

Section 5

This Memorandum of Understanding is of an exclusively recommendatory nature. It will not create any binding legal effect in public international law.

Section 6

1. The Secretary-General of the Council of the European Communities will inform all Signatories of the signing dates and date of entry into effect of this Memorandum of Understanding and will forward to them all notices which he has received under this Memorandum of Understanding.

2. This Memorandum of Understanding will be deposited with the General Secretariat of the Council of the European Communities. The Secretary-General will transmit a certified copy to each of the Signatories.

Done at Brussels on the eleventh of July in the year one thousand nine hundred and eighty-five.

ANNEX I

Coordination of the Project

CHAPTER I

1. A Management Committee (hereinafter referred to as 'the Committee') will be set up, composed of not more than two representatives for each Signatory. Each representative may be accompanied by such experts or advisers as he or she may need.

The governments which took part in the Ministerial Conference held in Brussels on 22 and 23 November 1971 and the European Communities may, in accordance with the second subparagraph of Section 4(1) of the Memorandum of Understanding, participate in the work of the Committee before becoming Signatories to the Memorandum without, however, having the right to vote.

When the European Communities are not a Signatory to the Memorandum of Understanding, a representative of the Commission of the European Communities may attend Committee meetings as an observer.

2. The Committee will be responsible for coordinating the Project and in particular, for making the necessary arrangements for:

- (a) the choice of research topics on the basis of those provided for in Annex II, including any modifications submitted to Signatories by the competent public authorities or bodies; any proposed changes to the Project framework will be referred for an opinion to the Technical Committee 'Telecommunications' (COST);
- (b) advising on the direction which work should take;
- (c) drawing up detailed plans and defining methods for the different phases of execution of the Project;
- (d) coordinating the contributions referred to in subparagraph (c) of Section 2 of the Memorandum of Understanding;
- (e) keeping abreast of the research being done in the territory of the Signatories and in other countries;
- (f) liaising with appropriate international bodies;
- (g) exchanging research results among the Signatories to the extent compatible with adequate safeguards for the interests of Signatories, their competent public authorities or bodies and research contractors in respect of industrial property rights and commercially confidential material;
- (h) drawing up the annual interim reports and the final report to be submitted to the Signatories and circulated as appropriate; drawing up a non-confidential report to be submitted annually to the Technical Committee 'Telecommunications' (COST);
- (i) dealing with any problem which may arise out of the execution of the Project, including those relating to possible special conditions to be attached to accession to the Memorandum of Understanding in the case of applications submitted more than six months after the date of the first signing.

3. The Committee will establish its rules of procedure.

4. The Secretariat of the Committee will be provided at the invitation of the Signatories by either the Commission of the European Communities or one of the Signatory States.

CHAPTER II

1. Signatories will invite public research establishments or research contractors in their territories to submit proposals for research work to their respective competent public authorities or bodies. Proposals accepted under this procedure will be submitted to the Committee.
2. Signatories will request public research contractors, before the Committee takes any decision on a proposal, to submit to the public authorities or bodies referred to in paragraph 1 notification of previous commitments and industrial property rights which they consider might preclude or hinder the execution of the Projects of the Signatories.

CHAPTER III

1. Signatories will request their public research establishments or research contractors to submit periodical progress reports and a final report.
2. The progress reports will be distributed to the Signatories only, through their representatives on the Committee. The Signatories will treat these progress reports as confidential and will not use them for purposes other than research work. The final reports on the results obtained will have much wider circulation, covering at least the Signatories' public research establishments or research contractors concerned.

CHAPTER IV

1. In order to facilitate the exchange of results referred to in Chapter I, paragraph 2(g), and subject to national law, Signatories intend to ensure, through the inclusion of appropriate terms in research contracts, that the owners of industrial property rights and technical information resulting from work carried out in implementation of that part of the Project assigned to them under Annex II (hereinafter referred to as 'the research results') will be under an obligation, if so requested by another signatory (hereinafter referred to as 'the applicant Signatory'), to supply the research results and to grant to the applicant Signatory or to a third party nominated by the applicant Signatory a licence to use the research results and such technical know-how incorporated therein as is necessary for such use if the applicant Signatory requires the granting of a licence for the execution of:

- (a) work in respect of the Project;
- (b) research and development work within the framework of the applicant Signatory's projects in the same field;
- (c) research and development work within the framework of any associated European project undertaken subsequently and in which all or several of the Signatories may be prepared to take part.

Such licences will be granted on fair and reasonable terms, having regard to commercial usage.

2. Signatories will, by including appropriate clauses in contracts placed with research contractors, provide for the licence referred to in paragraph 1 to be extended on fair and reasonable terms, having regard to commercial usage, to previous industrial property rights and to prior technical know-how acquired by the research contractor insofar as the research results could not otherwise be used for the purpose referred to in paragraph 1.

Where a research contractor is unable or unwilling to agree to such extension, the Signatory will submit the case to the Committee, before the contract is concluded; hereafter, the Committee will state its position on the case, if possible after having consulted the interested parties.

3. Signatories will take any steps necessary to ensure that the fulfilment of the conditions laid down in the present Chapter will not be affected by any subsequent transfer of rights to ownership of the research results. Any such transfer will be notified to the Committee.

4. If a Signatory terminates its participation in the Project, any rights of use which it has granted, or is obliged to grant, to, or has obtained from, other Signatories in application of the Memorandum of Understanding and concerning work carried out up to the date on which the said Signatory terminates its participation will continue thereafter.
5. The provisions of paragraphs 1 to 4 will continue to apply after the period of operation of the Memorandum of Understanding has expired and will apply to industrial property rights as long as these remain valid, and to unprotected inventions and technical know-how until such time as they pass into the public domain other than through disclosure by the licensee.

General description of the work planned for the Project

1. Purpose

The purpose of the projects is to amalgamate national efforts for the study and definition of systems for the transmission of signals in the Gbit/s range using either intensity modulation, direct detection or coherent techniques.

2. Aim

The Project aims at setting up preliminary specifications for such systems on the basis of the evaluation of prototype equipment, either in the laboratory or in the field.

3. Technical scope

The technical scope of the Project encompasses the study and evaluation of advanced devices and fibres, modulation and detection techniques, assembly of subsystems as transmitters and direct detection, homodyne or heterodyne receivers and their application for practical communication systems with a view to reaching the stated aim.

4. Study method

The study method should adapt itself to two distinct phases of the Project:

- (a) in the first phase (about two years), the study and evaluation of suitable methods, fibres and devices should be carried out separately, with the emphasis initially on application to direct detection systems in the Gbit/s range. This work will be supported by sufficiently frequent exchanges of experiences and results. The first phase will culminate in the establishment of direct detection systems models at one or more laboratories followed by preliminary specifications of systems.
- (b) the second phase (about three years) will develop and continue the evaluation work carried out in the first phase, with the emphasis on coherent system applications. Several system models will be established in as many laboratories as possible first as hypothetical or simulation models, subsequently followed by hardware models.

In both phases, the evaluation of alternative solutions and comparison of results will be used to steadily improve the tentative system definitions originally set up until a stage has been reached where production-oriented industrial development can take over.

**Memorandum of Understanding
for the implementation of a European research project
on high bit rate optical fibre systems**

(COST Project 215)

Date of entry into force of the action: 11.7.1985

Duration: 10.7.1990

Contracting Parties	Date of signing	Date of entry into force
Belgium	1.8.1985	1.8.1985
Denmark	11.7.1985	11.7.1985
Germany (FR of)	11.6.1986	11.6.1986
France	3.10.1985	3.10.1985
Italy	3.1.1986	3.1.1986
Netherlands	9.10.1986	9.10.1986
United Kingdom	11.7.1985	11.7.1985
Norway	17.12.1986	17.12.1986
Austria	7.10.1986	7.10.1986
Switzerland	11.7.1985	11.7.1985
Finland	11.7.1985	11.7.1985
Sweden	14.11.1985	14.11.1985

**Community-COST Concertation Agreement
on a concerted action project
in the field of teleinformatics**

(COST Project 11 ter)

Council Decision
of 4 November 1985
concerning the conclusion of a Community-COST Concertation Agree-
ment on a concerted action project in the field of teleinformatics
(COST Project 11ter)
(85/495/EEC)¹

THE COUNCIL OF THE EUROPEAN COMMUNITIES,

HAVING regard to the Treaty establishing the European Economic Community,

HAVING regard to the draft Decision submitted by the Commission,

WHEREAS by its Decision 79/783/EEC,² as last amended by Decision 84/559/EEC,³ the Council adopted a multiannual programme in the field of data processing including a concerted action project on teleinformatics;

WHEREAS Article 5 (1) of Decision 79/783/EEC lays down that the Community may conclude agreements with non-member States participating in European cooperation in the field of scientific and technical research (COST) with a view to ensuring concerted action between the Community activities relating to the collaboration in research and development and the relevant programmes of such States;

WHEREAS Article 5 (2) of Decision 79/783/EEC authorizes the Commission to negotiate the agreements;

WHEREAS pursuant to the said Article, the Commission has negotiated an agreement with Austria, Finland, Norway, Sweden, Switzerland and Yugoslavia;

WHEREAS this Agreement should be approved,

HAS DECIDED AS FOLLOWS:

Article 1

The Community-COST Concertation Agreement between the European Economic Community and Austria, Finland, Norway, Sweden, Switzerland and Yugoslavia on a concerted action project in the field of teleinformatics (COST Project 11ter) is hereby approved on behalf of the Community.

The text of the Agreement is attached hereto.

¹ OJ No L 297, 9. 11. 1985.

² OJ No L 231, 13. 9. 1979.

³ OJ No L 308, 27. 11. 1984.

Article 2

The President of the Council shall give the notification provided for in Article 6(1) of the Agreement.

Done at Brussels, 4 November 1985.

For the Council

The President

R. GOEBBELS

Community-COST Concertation Agreement on a concerted action project in the field of teleinformatics

(COST Project 11 ter)

The EUROPEAN ECONOMIC COMMUNITY, hereinafter referred to as 'the Community',

AUSTRIA, FINLAND, NORWAY, SWEDEN, SWITZERLAND and YUGOSLAVIA, hereinafter referred to as 'the participating non-member States',

WHEREAS a Community-COST Concertation Agreement on a concerted action project in the field of teleinformatics (COST Project 11 bis), which was concluded between the Community, Spain, Finland, Norway, Sweden and Yugoslavia on 22 January 1981 and expired on 11 September 1983, produced very encouraging results;

WHEREAS, by its Decision of 11 September 1979, the Council of the European Communities adopted a four-year programme for the development of data processing;

WHEREAS, by its Decision of 22 November 1984, the Council amended the programme adopted by its Decision of 11 September 1979 and this amendment includes a concerted action project in the field of teleinformatics, hereinafter referred to as 'COST Project 11 ter';

WHEREAS the Member States of the Community, the participating non-member States, hereinafter together referred to as 'the States', and the Community intend, subject to the rules and procedures applicable to their national programmes, to carry out the research described in Annex A and are prepared to integrate such research into a process of concertation which they consider will be of mutual benefit;

WHEREAS implementation of the research covered by the concerted action project will require a financial contribution of some 20 million ECU from the States and the Community,

HAVE AGREED AS FOLLOWS:

Article 1

The Community and the participating non-member States, hereinafter referred to as 'the Contracting Parties', shall participate for a period extending until 21 November 1986 in a concerted action project in the field of teleinformatics.

The Project is described in detail in Annex A.

The States shall remain entirely responsible for the research executed by their national institutions or bodies except research under contract with the Commission of the European Communities, hereinafter referred to as 'the Commission'.

Article 2

Concertation between the Contracting Parties shall be effected through a Community-COST Concertation Committee, hereinafter referred to as 'the Committee'.

The Committee shall draw up its rules of procedure. Its Secretariat shall be provided by the Commission.

The terms of reference and the composition of the Committee are defined in Annex B.

The structure of the Committee may be revised by the Contracting Parties.

Article 3

In order to ensure optimum efficiency in the execution of this concerted action project, a Project leader may be appointed by the Commission after having consulted the delegates of the participating non-member States on the Committee.

Article 4

The estimated financial contribution by the Contracting Parties to the coordination costs for the period referred to in the first paragraph of Article 1 shall be:

1 300 000 ECU from the Community

57 000 ECU from Austria

50 000 ECU from Finland

53 000 ECU from Norway

70 000 ECU from Sweden

70 000 ECU from Switzerland

58 000 ECU from Yugoslavia.

The ECU shall be that defined by the Financial Regulation in force applicable to the general budget of the European Communities and by the financial arrangements adopted pursuant thereto.

The rules governing the financing of the Agreement are set out in Annex C.

Article 5

1. Through the Committee, the States shall exchange regularly all useful information concerning the execution of the research covered by the concerted action project. They shall also endeavour to provide information on similar research planned or carried out by other bodies. Any information shall be treated as confidential if the State which provides it so requests.

2. After having consulted the Committee, the Commission shall prepare yearly progress reports on the basis of the information supplied and shall forward them to the States.

3. At the end of the concertation period, the Commission shall, after having consulted the Committee, forward to the States a general report on the execution and results of the Project. This report shall be published by the Commission not later than six months after it has been forwarded, unless a State objects. In that case, the report shall be confidential and shall be forwarded, on request and after having consulted the Committee, solely

to the institutions and undertakings whose research or production activities justify access to knowledge resulting from the performance of the research covered by the concerted action project.

Article 6

1. Each of the Contracting Parties shall, after signing this Agreement, notify the Secretary-General of the Council of the European Communities as soon as possible, of the completion of the procedures necessary under its internal provisions for the implementation of this Agreement.

2. For the Contracting Parties which have transmitted the notification provided for in paragraph 1, this Agreement shall enter into force on the first day of the month following that in which the Community and at least one of the participating non-member States transmitted these notifications.

For those Contracting Parties which transmit the notification after the entry into force of this Agreement, it shall come into force on the first day of the second month following the month in which the notification was transmitted.

Contracting Parties which have not yet transmitted this notification at the time of entry into force of this Agreement shall be able to take part in the work of the Committee without voting rights for a period of six months following the entry into force of this Agreement.

3. The Secretary-General of the Council of the European Communities shall notify each of the Contracting Parties of the deposit of the notifications provided for in paragraph 1 and of the date of entry into force of this Agreement.

Article 7

This Agreement shall apply, on the one hand, to the territories in which the Treaty establishing the European Economic Community is applied and under the conditions laid down in that Treaty and on the other hand, to the territories of the participating non-member States.

Article 8

This Agreement, drawn up in a single original in the Danish, Dutch, English, French, German, Greek and Italian languages, each text being equally authentic, shall be deposited in the archives of the General Secretariat of the Council of the European Communities, which shall transmit a certified copy to each of the Contracting Parties.

Done at Brussels, on the eighteenth day of November in the year one thousand nine hundred and eighty-five.

Purpose of the Project

The main purpose of the Project is to create an environment and mechanisms to:

- (a) initiate and stimulate cooperative research in teleinformatics;
- (b) facilitate the exchange of ideas, identification of problems and harmonization of solution strategies;
- (c) coordinate existing activities at European level, including harmonization of the efforts in European Research Networks;
- (d) transfer possible solutions found in research to other environments (e.g. industry);
- (e) provide, as a spin-off via national channels, input to standardization bodies.

By means of the following actions:

- (a) short and longer term exchange of researchers;
- (b) sponsoring of working groups for problem identification;
- (c) sponsoring collaborative research projects, mainly by covering additional costs due to collaboration;
- (d) possible establishment of experimental user groups,

the Project will place greater emphasis on research into the requirements of user-oriented services and in particular on ways of providing a higher degree of accessibility, availability and service integrity.

Work performed in the Project will be directed so as to be complementary to other European activities, in particular Esprit, especially with its information exchange system part, with the projects initiated by the COST Technical Committee on Telecommunications (TCT), with the activities in the framework of the Community standardization policy in information technology and with the activities in the framework of the Community telecommunication policy.

1. The areas are: those related to layer seven of ISO

This layer seven (i.e. application layer in the ISO reference model) oriented group of activities will contribute to a better understanding of the requirements of various applications, network arrangement and human interfaces.

The sub-areas are:

1.1. Distributed data bases

One of the most important future users of underlying communication services will be distributed data bases. A number of basic questions concerning management of DDB (concurrency, etc.) will have to be resolved. The work will initially be based on the results of DDB projects running in the framework of COST Project 11 bis;

1.2. Computer assisted human communication services

The purpose of a project in this area is to perform research and development to provide suitable and new tools for person-to-person communication. Investigations on such topics

should be done taking into account recent standardization efforts for 'message handling systems' by CCITT and therefore should concentrate on areas which are not covered by the new standards. New work in this area could so be understood as adding new values to the new standards.

1.3. Graphics applications

With GKS as the emerging standard in the graphics area, one should examine its incorporation into the ISO RM, evaluating its specific requirements on the underlying service providers.

1.4. Human factors

This activity aims at contributing to the development of application layer services in teleinformatics systems by investigating the man-computer interface (especially its software) with the intention of ensuring its usability and acceptability. The human and organizational implications of use of the teleinformatic services may also be subject of study.

1.5. OSIS (open shop for information services)

This activity, which started with a feasibility study already during COST Project 11 bis, should provide a means for easy access of users to the information providers and may have larger future impact on the techniques for all types of (value) financial transactions between service providers and service users. A demonstration of signing and authenticating a payment message at the same computer site and between different national computer sites is being prepared for the autumn of 1985.

1.6. Distributed system management

The objectives to be supported are:

- (a) research into the mechanisms required to provide a management infrastructure to support distributed processing;
- (b) research to establish the tools and techniques needed by computer and network managers whose systems participate in distributed processing;
- (c) development of communication protocols for the purpose of distributed system management, within the scope of open systems interconnection.

1.7. Privacy and security in networking environment

This area is a matter of much current concern. Objectives of the work are to examine techniques which will enable the network to safeguard information in transit.

2. Formal methods of description and testing protocols

Various formal description techniques (FDTs), for describing protocols and services, have been developed in the last decade. Thus, when one has to describe a protocol and/or a service, one may choose from a variety of FDTs, according to one's objectives, field of application, needs etc.

The objectives of this research are to state criteria and methods for evaluating and comparing FDTs, for stating the equivalence and capability of interworking of formal descriptions obtained with different FDTs, and so on.

The areas indicated above do not provide an exhaustive list but the limited funds likely to be available for the Project will need to concentrate on a limited number of areas.

ANNEX B

Terms of reference and composition of the Community-COST Concertation Committee on Teleinformatics

1. The Committee shall:

1.1. contribute to the optimum execution of the concerted action project giving its opinion on all its aspects, including in particular:

- (a) promoting and coordinating activities at national level within the concerted action;
- (b) defining subjects of particular importance or of common interest;
- (c) allocating financial support from the coordination fund;
- (d) selecting contractors for specific tasks;
- (e) appointing the Project leader;
- (f) giving guidance to the Project leader.

1.2. evaluate the results of the projects and draw conclusions as to their application;

1.3. be responsible for the exchange of information referred to in Article 5 (1) of the Agreement.

2. The Committee's reports and opinions shall be forwarded to the States.

3. The Committee shall be composed of one delegate from the Commission, one delegate from each participating non-member State, one delegate from each Member State representing its national programme, and the Project leader. Each delegate may be accompanied by experts.

The Committee may invite representatives of users, of CEPT and of European bodies supporting standardization activities, to give their views.

ANNEX C

Financing Rules

Article 1

The provisions lay down the financial rules referred to in Article 4 of the Agreement.

Article 2

On the entry into force of the Agreement, the Commission shall send to each of the participating non-member States a call for funds corresponding to the amount laid down in Article 4 of the Agreement.

This contribution shall be expressed both in ECU and in the currency of the State concerned, the value of the ECU being defined in the Financial Regulation applicable to the general budget of the European Communities and determined on the date of the call for funds.

The total contributions shall cover the travel and subsistence costs of the delegates to the Committee, in addition to the coordination costs proper.

Each participating non-member State shall pay its contribution to the coordination costs under the Agreement three months after the issue of the call for funds by the Commission at the latest. Any delay in the payment shall give rise to the payment of interest by the participating non-member State concerned at a rate equal to the highest discount rate obtaining in the States on the due date. The rate shall be increased by 0.25 of a percentage point for each month of delay. The increased rate shall be applied to the entire period of delay.

Article 3

The funds paid by participating non-member States shall be credited to the concerted action project as budget receipts allocated to a heading in the statement of revenue of the general budget of the European Communities (Commission section).

Article 4

The provisional schedule for the coordination costs referred to in Article 4 of the Agreement is appended hereto.

Article 5

The Financial Regulation in force applicable to the general budget of the European Communities shall apply to the management of the appropriations.

Article 6

At the end of each financial year, a statement of appropriations for the concerted action project shall be prepared and transmitted to the participating non-member States for information.

APPENDIX

Provisional timetable for the concerted action project: teleinformatics (action COST 11 ter) Budget Item 7702 'Community operations for the development of data processing'

ECU

	1985		1986		1987		1988		Total	
	CA	PA	CA	PA	CA	PA	CA	PA	CA	PA
I Initial estimate of overall requirements:										
(a) Administrative operating expenditure and contracts	1 300 000	350 000	—	400 000	—	350 000	—	200 000	1 300 000	1 300 000
Total	1 300 000	350 000	—	400 000	—	350 000	—	200 000	1 300 000	1 300 000
II Revised estimate of expenditure taking into account additional requirements arising from the accession of participating non-member States:										
(a) Administrative operating expenditure and contracts	1 300 000	350 000	358 000	520 000	—	470 000	—	318 000	1 658 000	1 658 000
III Difference between I and II to be covered by contributions from participating non-member States	0	0	358 000	120 000	—	120 000	—	118 000	358 000	358 000

CA = commitment appropriations.

PA = payment appropriations.

**Community-COST Concertation Agreement
on a concerted action project
in the field of teleinformatics**

(COST Project 11 ter)

Decision of Community programmes: 22.11.1984

Date of entry into force of the action: 1.12.1985

Duration: 21.11.1986

Contracting Parties	Date of signing	Date of entry into force
EC	18.11.1985	18.11.1985
Yugoslavia	18.11.1985	18.11.1985
Norway	18.11.1985	18.11.1985
Austria	18.11.1985	18.11.1985
Switzerland	18.11.1985	18.11.1985
Finland	18.11.1985	18.11.1985
Sweden	18.11.1985	18.11.1985

**Community-COST Concertation Agreement
on a concerted action project on the use of
lignocellulose-containing by-products
and other plant residues for
animal feeding**

(COST Project 84 bis)

Council Decision

of 16 July 1985

concerning the conclusion of a Community-COST Concertation Agreement on a concerted action project on the use of lignocellulose-containing by-products and other plant residues for animal feeding

(COST Project 84 bis)

(85/366/EEC)¹

THE COUNCIL OF THE EUROPEAN COMMUNITIES,

HAVING regard to the Treaty establishing the European Economic Community,

HAVING regard to the draft Decision submitted by the Commission,

WHEREAS by its Decision 84/197/EEC² the Council adopted a concerted action project of the European Economic Community on the use of lignocellulose-containing by-products and other plant residues for animal feeding;

WHEREAS Article 6 of Decision 84/197/EEC lays down that the Community may conclude an agreement with third States participating in European cooperation in the field of scientific and technical research (COST) with a view to coordinating the Community project with the corresponding programmes of those States;

WHEREAS by its Decision of 20 February 1984, the Council authorized the Commission to negotiate an agreement to this end;

WHEREAS the Commission has completed these negotiations;

WHEREAS this Agreement should be approved,

HAS DECIDED AS FOLLOWS:

Article 1

The Community-COST concertation agreement on a concerted action project on the use of lignocellulose-containing by-products and other plant residues for animal feeding (COST Project 84 bis) is hereby approved on behalf of the Community.

The text of the Agreement is attached to this Decision.

¹ OJ No L 199, 31. 7. 1985.

² OJ No L 103, 16. 4. 1984.

Article 2

The President of the Council shall give the notification provided for in Article 6(2) of the Agreement.

Done at Brussels, 16 July 1985.

For the Council

The President

M. FISCHBACH

**Community-COST Concertation Agreement
on a concerted action project on the use of
lignocellulose-containing by-products
and other plant residues for
animal feeding**

(COST Project 84 bis)

THE EUROPEAN ECONOMIC COMMUNITY,

hereinafter referred to as 'the Community',

THE SIGNATORY STATES TO THIS AGREEMENT,

hereinafter referred to as 'the participating non-member States',

WHEREAS a research project on single-cell protein production and utilization in animal feeding, implemented by a Memorandum of Understanding signed on 27 March 1980 within the framework of European cooperation in the field of scientific and technical research (COST) (COST Project 83/84), has yielded very encouraging results;

WHEREAS by its Decision of 2 April 1984 the Council of the European Communities adopted a Community concerted action project on the use of lignocellulose-containing by-products and other plant residues for animal feeding;

WHEREAS the Member States of the Community and the participating non-member States, hereinafter referred to as 'the States', intend, subject to the rules and procedures applicable to their national programmes, to carry out the research described in Annex A and are prepared to integrate such research into a process of concertation which they consider will be of mutual benefit;

WHEREAS the implementation of the research covered by the concerted action project will require a financial contribution of approximately 25 million ECU from the States,

HAVE AGREED AS FOLLOWS:

Article 1

The Community and the participating non-member States, hereinafter referred to as 'the Contracting Parties', shall participate for a period extending until 1 April 1988 in a concerted action project on the use of lignocellulose-containing by-products and other plant residues for animal feeding.

This Project shall consist in concertation between the Community concerted action programme and the corresponding programmes of the participating non-member States. Research topics covered by this Agreement are listed in Annex A.

The States shall remain entirely responsible for the research carried out by their national institutions or bodies.

Article 2

Concertation between the Contracting Parties shall be effected through a Community-COST Concertation Committee, hereinafter referred to as 'the Committee'.

The Committee shall draw up its rules of procedure. Its Secretariat will be provided by the Commission of the European Communities, hereinafter referred to as 'the Commission'.

The terms of reference and the composition of this Committee are defined in Annex B.

Article 3

In order to ensure optimum efficiency in the execution of this concerted action project, a Project leader may be appointed by the Commission in agreement with the delegates of the participating non-member States on the Committee.

Article 4

The maximum financial contribution by the Contracting Parties to the coordination costs for the period referred to in the first paragraph of Article 1 shall be:

- (a) 650 000 ECU from the Community;
- (b) 65 000 ECU from each participating non-member State.

The ECU is that defined by the Financial Regulation in force applicable to the general budget of the European Communities and by the financial arrangements adopted pursuant thereto.

The rules governing the financing of the Agreement are set out in Annex C.

Article 5

1. Through the Committee, the States shall exchange regularly all useful information resulting from the execution of the research covered by the concerted action project. They shall also endeavour to provide information on similar research planned or carried out by other bodies. Any information shall be treated as confidential if the State which provides it so requests.

2. After having consulted the Committee, the Commission shall prepare annual progress reports on the basis of the information supplied and shall forward them to the States.

3. At the end of the concertation period, the Commission shall, after having consulted the Committee, forward to the States a general report on the execution and results of the Project. This report shall be published by the Commission not later than six months after it has been forwarded, unless a State objects. In that case the report shall be treated as confidential and shall be forwarded, on the request and with the agreement of the Committee, solely to the institutions and undertakings whose research or production activities justify access to knowledge resulting from the performance of the research covered by the concerted action project.

Done at Brussels on the thirtieth day of October in the year one thousand nine hundred and eighty-five.

Article 6

1. This Agreement shall be open for signature by the Community and by the non-member States which took part in the Ministerial Conference held in Brussels on 22 and 23 November 1971.

2. As a condition precedent to its participation in the concerted action project defined in Article 1, each of the Contracting Parties shall, after signing this Agreement, have notified the Secretary-General of the Council of the European Communities not later than 31 December 1985 of the completion of the procedures necessary under its internal provisions for the implementation of this Agreement.

3. For the Contracting Parties which transmit the notification provided for in paragraph 2, this Agreement shall come into force on the first day of the month following that in which the Community and at least one of the participating non-member States transmitted these notifications.

For those Contracting Parties which transmit the notification after the entry into force of this Agreement, it shall come into force on the first day of the second month following the month in which the notification was transmitted.

Contracting Parties which have not transmitted this notification when this Agreement comes into force shall be able to take part in the work of the Committee without voting rights until 31 December 1985.

4. The Secretary-General of the Council of the European Communities shall inform each of the Contracting Parties of the notifications provided for in paragraph 2 and of the date of entry into force of this Agreement.

Article 7

This Agreement shall apply, on the one hand, to the territories in which the Treaty establishing the European Economic Community is applied and under the conditions laid down in that Treaty and, on the other hand, to the territories of the participating non-member States.

Article 8

This Agreement, drawn up in a single original in the Danish, Dutch, English, French, German, Greek and Italian languages, each text being equally authentic, shall be deposited in the archives of the General Secretariat of the Council of the European Communities which shall transmit a certified copy to each of the Contracting Parties.

ANNEX A

Research topics covered by the Agreement

1. Use of substrates.
2. Use of products converted into animal feed.

ANNEX B

Terms of reference and composition of the Community-COST Concertation Committee on the use of lignocellulose-containing by-products and other plant residues for animal feeding

- 1. The Committee shall:**
 - 1.1. contribute to the optimum execution of the Project by giving its opinion on all aspects of its progress;**
 - 1.2. evaluate the results of the Project and draw conclusions regarding their application;**
 - 1.3. be responsible for the exchange of information provided for in Article 5(1) of the Agreement;**
 - 1.4. suggest guidelines to the Project leader;**
 - 1.5. have the right to set up, in respect of each of the research topics defined in Annex A, a subcommittee to ensure that the programme is properly implemented.**
- 2. The Committee's reports and opinions shall be communicated to the States.**
- 3. The Committee shall be composed of one delegate from the Commission, as coordinator of the Community concerted action project, one delegate from each participating non-member State, one delegate from each Member State representing its national programme and the Project leader. Each delegate may be accompanied by experts.**

ANNEX C

Financing Rules

Article 1

These provisions lay down the financial rules referred to in Article 4 of the Community-COST Concertation Agreement on a concerted action project on the use of lignocellulose-containing by-products and other plant residues for animal feeding (COST Project 84 bis).

Article 2

At the beginning of each financial year, the Commission shall send to each of the participating non-member States a call for funds corresponding to its share of the annual coordination costs under the Agreement, calculated in proportion to the maximum amounts laid down in Article 4 of the Agreement.

This contribution shall be expressed both in ECU and the currency of the participating non-member State concerned, the value of the ECU being defined in the Financial Regulation applicable to the general budget of the European Communities and determined on the date of the call for funds.

The total contributions shall cover the travel and subsistence costs of the delegates to the Committee, in addition to the coordination costs proper which include meetings, contracts to be concluded with persons or bodies in the participating States with a view to ensuring coordination and exchange of research workers between laboratories.

Each participating non-member State shall pay its annual contribution to the coordination costs under the Agreement at the beginning of each year, and by 31 March at the latest. Any delay in the payment of the annual contribution shall give rise to the payment of interest by the participating non-member State concerned at a rate equal to the highest discount rate ruling in the States on the due date. The rate shall be increased by 0.25 of a percentage point for each month of delay. The increased rate shall be applied to the entire period of delay. However, such interest shall be chargeable only if payment is effected more than three months after the issue of a call for funds by the Commission.

Article 3

The funds paid by participating non-member States shall be credited to the concerted action project as budget receipts allocated to a heading in the statement of revenue of the budget of the European Communities (Commission section).

Article 4

The provisional timetable for the coordination costs referred to in Article 4 of the Agreement is appended hereto.

Article 5

The Financial Regulation in force applicable to the general budget of the European Communities shall apply to the management of the appropriations.

Article 6

At the end of each financial year, a statement of appropriations for the concerted action project shall be prepared and transmitted to the participating non-member States for information.

APPENDIX

Provisional timetable for the concerted action project 'Effects of processing and
distribution on the quality and nutritive value of food'
(COST Project 84 bis)

ECU

	1984		1985		1986		1987		1988		Total	
	CA	PA	CA	PA	CA	PA	CA	PA	CA	PA	CA	PA
I Initial estimate of overall requirements:												
(a) Staff*	—	—	17 000	17 000	36 000	36 000	39 000	39 000	14 000	14 000	106 000	106 000
(b) Administrative operating expenditure	40 000	40 000	69 000	69 000	54 000	54 000	60 000	60 000	36 000	36 000	259 000	259 000
(c) Contracts	60 000	20 000	90 000	39 000	45 000	90 000	90 000	54 000	—	82 000	285 000	285 000
	100 000	60 000	176 000	125 000	135 000	180 000	189 000	153 000	50 000	132 000	650 000	650 000
II Revised estimate of expenditure taking into account additional requirements arising from the accession of participating non-member States:												
(a) Staff	—	—										
(b) Administrative operating expenditure	100 000	60 000	176 000	125 000	135 000	180 000	189 000	153 000	50 000	132 000	650 000	650 000
	$\frac{100\ 000}{n100\ 000}$	$\frac{60\ 000}{n60\ 000}$	$\frac{176\ 000}{n176\ 000}$	$\frac{125\ 000}{n125\ 000}$	$\frac{135\ 000}{n135\ 000}$	$\frac{180\ 000}{n180\ 000}$	$\frac{189\ 000}{n189\ 000}$	$\frac{153\ 000}{n153\ 000}$	$\frac{50\ 000}{n50\ 000}$	$\frac{132\ 000}{n132\ 000}$	$\frac{650\ 000}{n650\ 000}$	$\frac{650\ 000}{n650\ 000}$
(c) Contracts	10	10	10	10	10	10	10	10	10	10	10	10
III Difference between I and II to be covered by contributions from participating non-member States	$\frac{n100\ 000}{10}$	$\frac{n60\ 000}{10}$	$\frac{n176\ 000}{10}$	$\frac{n125\ 000}{10}$	$\frac{n135\ 000}{10}$	$\frac{n180\ 000}{10}$	$\frac{n189\ 000}{10}$	$\frac{n153\ 000}{10}$	$\frac{n50\ 000}{10}$	$\frac{n132\ 000}{10}$	$\frac{n650\ 000}{10}$	$\frac{n650\ 000}{10}$

n = number of participating non-member States.

CA = commitment appropriations.

PA = payment appropriations.

* With a view to carrying out this Project, the Commission has requested for 1985 a support staff of one category C employee in addition to the resources allocated by the Decision of 2 April 1984 adopting the Project (OJ L 103, 16.4.1984, p. 29). During 1985, it will lay before the Council, for approval, a proposal for a new programme in the raw materials sector which will incorporate this Project and the staff complement allocated thereto by the budget authority.

**Community-COST Concertation Agreement
on a concerted action project on the use of
lignocellulose-containing by-products
and other plant residues for animal feeding**

(COST Project 84 bis)

Decision of Community programmes: 2.4.1984

Date of entry into force of the action: 1.12.1985

Duration: 1.4.1988

Contracting Parties	Date of signing	Date of entry into force
EC	31.10.1985	31.10.1985
Switzerland	19.11.1985	19.11.1985

**Community-COST Concertation Agreement
on a concerted action project on the effects
of processing and distribution on the
quality and nutritive value
of food**

(COST Project 91 bis)

Council Decision

of 16 July 1985

concerning the conclusion of a Community-COST Concertation Agreement on a concerted action project on the effects of processing and distribution on the quality and nutritive value of food

(COST Project 91 bis)

(85/367/EEC)¹

THE COUNCIL OF THE EUROPEAN COMMUNITIES,

HAVING regard to the Treaty establishing the European Economic Community,

HAVING regard to the draft Decision submitted by the Commission,

WHEREAS by its Decision 84/304/EEC,² the Council adopted a concerted action research project of the European Economic Community on the effects of processing and distribution on the quality and nutritive value of food;

WHEREAS Article 6 of Decision 84/304/EEC lays down that the Community may conclude an agreement with third States participating in European cooperation in the field of scientific and technical research (COST) with a view to concerting the Community project with the corresponding programmes of those States;

WHEREAS by its Decision of 23 and 24 January 1984, the Council authorized the Commission to negotiate an agreement to this end;

WHEREAS the Commission has completed these negotiations;

WHEREAS this Agreement should be approved,

HAS DECIDED AS FOLLOWS:

Article 1

The Community-COST concertation agreement on a concerted action project on the effects of processing and distribution on the quality and nutritive value of food (COST Project 91 bis) is hereby approved on behalf of the Community.

The text of the Agreement is attached to this Decision.

¹ OJ No L 199, 31. 7. 1985.

² OJ No L 151, 7. 6. 1984.

Article 2

The President of the Council shall give the notification provided for in Article 6(2) of the Agreement.

Done at Brussels, 16 July 1985.

For the Council

The President

M. FISCHBACH

**Community-COST Concertation Agreement
on a concerted action project on the effects
of processing and distribution on the
quality and nutritive value
of food**

(COST Project 91 bis)

THE EUROPEAN ECONOMIC COMMUNITY,

hereinafter referred to as 'the Community',

THE SIGNATORY STATES TO THIS AGREEMENT,

hereinafter referred to as 'the participating non-member States',

WHEREAS a Community-COST Concertation Agreement on a concerted action project on the effects of thermal processing and distribution on the quality and nutritive value of foods (COST Project 91) was concluded between the Community and some non-member States involved in European cooperation in the field of scientific and technical research (COST) on 22 January 1981 and expired on 26 November 1982;

WHEREAS the abovementioned concerted action project has produced very encouraging results;

WHEREAS by its Decision of 24 May 1984 the Council of the European Communities adopted a Community concerted action project on the effects of processing and distribution on the quality and nutritive value of food;

WHEREAS the Member States of the Community and the participating non-member States, hereinafter referred to as 'the States', intend, subject to the rules and procedures applicable to their national programmes, to carry out the research described in Annex A and whereas they are willing to have such research integrated into a process of concertation which they consider will be of mutual benefit;

WHEREAS the implementation of the research covered by the concerted action project will require a financial contribution of approximately 20 million ECU from the States,

HAVE AGREED AS FOLLOWS:

Article 1

The Community and the participating non-member States, hereinafter referred to as 'the Contracting Parties', shall participate for a period extending until 7 June 1988 in a concerted action project on the effects of processing and distribution on the quality and nutritive value of food.

This Project shall consist in concertation between the Community concerted action programme and the corresponding programmes of the participating

non-member States. Research topics covered by this Agreement are listed in Annex A.

The States shall remain entirely responsible for the research carried out by their national institutions or bodies.

Article 2

Concertation between the Contracting Parties shall be effected through a Community-COST Con-

certation Committee, hereinafter referred to as 'the Committee'.

The Committee shall adopt its rules of procedure. Its Secretariat shall be provided by the Commission of the European Communities, hereinafter referred to as 'the Commission'.

The terms of reference and the composition of this Committee are defined in Annex B.

Article 3

In order to ensure optimum efficiency in the execution of this concerted action project, a Project leader shall be appointed by the Commission in agreement with the delegates of the participating non-member States on the Committee.

Article 4

The maximum financial contribution by the Contracting Parties to the coordination costs for the period referred to in the first paragraph of Article 1 shall be:

- (a) 780 000 ECU from the Community;
- (b) 78 000 ECU from each participating non-member State.

The ECU is that defined by the Financial Regulation in force applicable to the general budget of the European Communities and by the financial arrangements adopted pursuant thereto.

The rules governing the financing of the Agreement are set out in Annex C.

Article 5

1. Through the Committee, the States shall exchange regularly all useful information resulting from the execution of the research covered by the concerted action project. They shall also endeavour to provide information on similar research planned or carried out by other bodies. Any information shall be treated as confidential if the State which provides it so requests.

2. After having consulted the Committee, the Commission shall prepare annual progress reports on the basis of the information supplied and shall forward them to the States.

3. At the end of the concertation period, the Commission shall, after having consulted the Committee, forward to the States a general report on the execution and results of the Project. This report shall be published by the Commission not la-

ter than six months after it has been forwarded, unless a State objects. In that case the report shall be treated as confidential and shall be forwarded, on the request and with the agreement of the Committee, solely to the institutions and undertakings whose research or production activities justify access to knowledge resulting from the performance of the research covered by the concerted action project.

Article 6

1. This Agreement shall be open for signature by the Community and by the non-member States which took part in the Ministerial Conference held in Brussels on 22 and 23 November 1971.

2. As a condition precedent to its participation in the concerted action project defined in Article 1, each of the Contracting Parties shall, after signing this Agreement, have notified the Secretary-General of the Council of the European Communities not later than 31 December 1985 of the completion of the procedures necessary under its internal provisions for the implementation of this Agreement.

3. For the Contracting Parties which transmit the notification provided for in paragraph 2, this Agreement shall come into force on the first day of the month following that in which the Community and at least one of the participating non-member States transmitted these notifications.

For those Contracting Parties which transmit the notification after the entry into force of this Agreement, it shall come into force on the first day of the second month following the month in which the notification was transmitted.

Contracting Parties which have not transmitted this notification when this Agreement comes into force shall be able to take part in the work of the Committee without voting rights until 31 December 1985.

4. The Secretary-General of the Council of the European Communities shall inform each of the Contracting Parties of the notifications provided for in paragraph 2 and of the date of entry into force of this Agreement.

Article 7

This Agreement shall apply, on the one hand, to the territories in which the Treaty establishing the European Economic Community is applied and under the conditions laid down in that Treaty and, on the other hand, to the territories of the participating non-member States.

Article 8

This Agreement, drawn up in a single original in the Danish, Dutch, English, French, German, Greek and Italian languages, each text being

equally authentic, shall be deposited in the archives of the General Secretariat of the Council of the European Communities which shall transmit a certified copy to each of the Contracting Parties.

ANNEX A

Research topics covered by the Agreement

- 1. HTST process (high-temperature, short-time processing) and other new thermal processing systems.**
- 2. Qualitative and nutritive properties of foods obtained by biotechnology.**
- 3. Chilling and refrigerated storage.**

ANNEX B

Terms of reference and composition of the Community-COST Concertation Committee on the effects of processing and distribution on the quality and nutritive value of food

1. The Committee shall:

- 1.1. contribute to the optimum execution of the Project by giving its opinion on all aspects of its progress;**
- 1.2. evaluate the results of the Project and draw conclusions regarding their application;**
- 1.3. be responsible for the exchange of information provided for in Article 5 (1) of the Agreement;**
- 1.4. suggest guidelines to the Project leader;**
- 1.5. have the right to set up, in respect of each of the research topics defined in Annex A, a subcommittee to ensure that the programme is properly implemented.**

2. The Committee's reports and opinions shall be communicated to the States.

3. The Committee shall be composed of one delegate from the Commission, as coordinator of the Community concerted action project, one delegate from each participating non-member State, one delegate from each Member State representing its national programme and the Project leader. Each delegate may be accompanied by experts.

ANNEX C

Financing Rules

Article 1

These provisions lay down the financial rules referred to in Article 4 of the Community-COST Concertation Agreement on a concerted action project on the effects of processing and distribution on the quality and nutritive value of food (COST Project 91 bis).

Article 2

At the beginning of each financial year, the Commission shall send to each of the participating non-member States a call for funds corresponding to its share of the annual coordination costs under the Agreement, calculated in proportion to the maximum amounts laid down in Article 4 of the Agreement.

This contribution shall be expressed both in ECU and the currency of the participating non-member State concerned, the value of the ECU being defined in the Financial Regulation applicable to the general budget of the European Communities and determined on the date of the call for funds.

The total contributions shall cover the travel and subsistence costs of the delegates to the Committee, in addition to the coordination costs proper which include meetings, contracts to be concluded with persons or bodies in the participating States with a view to ensuring coordination and exchange of research workers between laboratories.

Each participating non-member State shall pay its annual contribution to the coordination costs under the Agreement at the beginning of each year, and by 31 March at the latest. Any delay in the payment of the annual contribution shall give rise to the payment of interest by the participating non-member State concerned at a rate equal to the highest discount rate ruling in the States on the due date. The rate shall be increased by 0.25 of a percentage point for each month of delay. The increased rate shall be applied to the entire period of delay. However, such interest shall be chargeable only if payment is effected more than three months after the issue of a call for funds by the Commission.

Article 3

The funds paid by participating non-member States shall be credited to the concerted action project as budget receipts allocated to a heading in the statement of revenue of the budget of the European Communities (Commission section).

Article 4

The provisional timetable for the coordination costs referred to in Article 4 of the Agreement is appended hereto.

Article 5

The Financial Regulation in force applicable to the general budget of the European Communities shall apply to the management of the appropriations.

Article 6

At the end of each financial year, a statement of appropriations for the concerted action project shall be prepared and transmitted to the participating non-member States for information.

APPENDIX

Provisional timetable for the concerted action project 'Effects of processing and
distribution on the quality and nutritive value of food'
(COST Project 91 bis)

ECU

	1984		1985		1986		1987		1988		Total	
	CA	PA	CA	PA	CA	PA	CA	PA	CA	PA	CA	PA
I Initial estimate of overall requirements:												
(a) Staff	—	—	17 000	17 000	36 650	36 650	39 100	39 100	20 000	20 000	112 750	112 750
(b) Administrative operating expenditure	40 000	40 000	71 000	71 000	75 000	75 000	77 000	77 000	50 000	50 000	313 000	313 000
(c) Contracts	45 000	20 000	102 000	37 000	90 000	115 000	95 000	115 000	22 250	67 250	354 250	354 250
	85 000	60 000	190 000	125 000	201 650	226 650	211 100	231 100	92 250	137 250	780 000	780 000
II Revised estimate of expenditure taking into account additional requirements arising from the accession of participating non-member States												
(a) Staff	—	—										
(b) Administrative operating expenditure	85 000	60 000	190 000	125 000	201 650	226 650	211 100	231 100	92 250	137 250	780 000	780 000
(c) Contracts	n85 000	n60 000	n190 000	n125 000	n201 650	n226 650	n211 100	n231 100	n92 250	n137 250	n780 000	n780 000
	10	10	10	10	10	10	10	10	10	10	10	10
III Difference between I and II to be covered by contributions from participating non-member States												
	n85 000	n60 000	n190 000	n125 000	n201 650	n226 650	n211 100	n231 100	n92 250	n137 250	n780 000	n780 000
	10	10	10	10	10	10	10	10	10	10	10	10

n = number of participating non-member States.
CA = commitment appropriations.
PA = payment appropriations.

**Community-COST Concertation Agreement
on a concerted action project on the effects
of processing and distribution on the
quality and nutritive value
of food**

(COST Project 91 bis)

Decision of Community programmes: 24.5.1984
Date of entry into force of the action: 1.12.1985
Duration: 7.6.1988

Contracting Parties	Date of signing	Date of entry into force
EC	7.11.1985	7.11.1985
Switzerland	19.11.1985	19.11.1985
Finland	28.11.1985	28.11.1985
Sweden	14.11.1985	14.11.1985

**Community-COST Concertation Agreement
on a concerted action project in the field
of artificial intelligence
and pattern recognition**

(COST Project 13)

Council Decision
of 26 November 1985
concerning the conclusion of a Community-COST Concertation
Agreement on a concerted action project
in the field of artificial intelligence and pattern recognition
(COST Project 13)
(85/519/EEC)¹

THE COUNCIL OF THE EUROPEAN COMMUNITIES,

HAVING regard to the Treaty establishing the European Economic Community,

HAVING regard to the draft Decision submitted by the Commission,

WHEREAS by its Decision 79/783/EEC² as last amended by Decision 84/559/EEC³ the Council adopted a multiannual programme in the field of data processing including a concerted action project on artificial intelligence and pattern recognition;

WHEREAS Article 5(1) of Decision 79/783/EEC lay down that the Community may conclude Agreements with non-member States participating in European cooperation in the field of scientific and technical research (COST) with a view to ensuring concerted action between the Community activities relating to the collaboration in research and development and the relevant programmes of such States;

WHEREAS Article 5(2) of the said Decision 79/783/EEC authorizes the Commission to negotiate the Agreements;

WHEREAS pursuant to the said Article, the Commission has negotiated an Agreement with Austria, Finland, Norway, Sweden, Switzerland and Yugoslavia;

WHEREAS this Agreement should be approved,

HAS DECIDED AS FOLLOWS:

Article 1

The Community-COST Concertation Agreement between the European Economic Community and Austria, Finland, Norway, Sweden, Switzerland and Yugoslavia on a concerted-action project in the field of artificial intelligence and pattern recognition (COST Project 13) is hereby approved on behalf of the Community.

The text of the Agreement is attached hereto.

¹ OJ No L 322, 3. 12. 1985.

² OJ No L 231, 13. 9. 1979.

³ OJ No L 308, 27. 11. 1984.

Article 2

The President of the Council shall give the notification provided for in Article 6(1) of the Agreement.

Done at Brussels, 26 November 1985.

For the Council

The President

J. F. POOS

Community-COST Concertation Agreement on a concerted action project in the field of artificial intelligence and pattern recognition

(COST Project 13)

THE EUROPEAN ECONOMIC COMMUNITY,

hereinafter referred to as 'the Community',

AUSTRIA, FINLAND, NORWAY, SWEDEN, SWITZERLAND and YUGOSLAVIA,

hereinafter referred to as 'the participating non-member States',

WHEREAS, by its Decision of 11 September 1979, the Council of the European Communities adopted a four-year programme for the development of data processing;

WHEREAS, by its Decision of 22 November 1984, the Council amended the programme adopted by its Decision of 11 September 1979 and this amendment includes a concerted action project in the field of artificial intelligence and pattern recognition, hereinafter referred to as 'COST Project 13';

WHEREAS the Member States of the Community, the participating non-member States, hereinafter together referred to as 'the States', and the Community intend, subject to the rules and procedures applicable to their national programmes, to carry out the research described in Annex A and are prepared to integrate such research into a process of concertation which they consider will be of mutual benefit;

WHEREAS implementation of the research covered by the concerted action project will require a financial contribution of some 15 million ECU from the States and the Community,

HAVE AGREED AS FOLLOWS:

Article 1

The Community and the participating non-member States, hereinafter referred to as 'the Contracting Parties', shall participate for a period extending until 21 November 1986 in a concerted action project in the field of artificial intelligence and pattern recognition.

The Project is described in detail in Annex A.

The States shall remain entirely responsible for the research executed by their national institutions or bodies except research under contract with the Commission of the European Communities, hereinafter referred to as 'the Commission'.

Article 2

Concertation between the Contracting Parties shall be effected through a Community-COST Concertation Committee, hereinafter referred to as 'the Committee'.

The Committee shall draw up its rules of procedure. Its Secretariat shall be provided by the Commission.

The terms of reference and the composition of the Committee are defined in Annex B.

The structure of the Committee may be revised by the Contracting Parties.

Article 3

In order to ensure optimum efficiency in the execution of this concerted action project, a Project leader may be appointed by the Commission after having consulted the delegates of the participating non-member States on the Committee.

Article 4

The estimated financial contribution by the Contracting Parties to the coordination costs for the period referred to in the first paragraph of Article 1 shall be:

1 300 000 ECU from the Community

57 000 ECU from Austria

50 000 ECU from Finland

53 000 ECU from Norway

70 000 ECU from Sweden

70 000 ECU from Switzerland

58 000 ECU from Yugoslavia.

The ECU shall be that defined by the Financial Regulation in force applicable to the general budget of the European Communities and by the financial arrangements adopted pursuant thereto.

The rules governing the financing of the Agreement are set out in Annex C.

Article 5

1. Through the Committee, the States shall exchange regularly all useful information concerning the execution of the research covered by the concerted action project. They shall also endeavour to provide information on similar research planned or carried out by other bodies. Any information shall be treated as confidential if the State which provides it so requests.

2. After having consulted the Committee, the Commission shall prepare yearly progress reports on the basis of the information supplied and shall forward them to the States.

3. At the end of the concertation period, the Commission shall, after having consulted the Committee, forward to the States a general report on the execution and results of the Project. This report shall be published by the Commission not later than six months after it has been forwarded, unless a State objects. In that case, the report shall be confidential and shall be forwarded, on request and after having consulted the Committee, solely

to the institutions and undertakings whose research or production activities justify access to knowledge resulting from the performance of the research covered by the concerted action project.

Article 6

1. Each of the Contracting Parties shall, after signing this Agreement, notify the Secretary-General of the Council of the European Communities as soon as possible of the completion of the procedures necessary under its internal provisions for the implementation of this Agreement.

2. For the Contracting Parties which have transmitted the notification provided for in paragraph 1, this Agreement shall enter into force on the first day of the month following that in which the Community and at least one of the participating non-member States transmitted these notifications.

For those Contracting Parties which transmit the notification after the entry into force of this Agreement, it shall come into force on the first day of the second month following the month in which the notification was transmitted.

Contracting Parties which have not yet transmitted this notification at the time of entry into force of this Agreement shall be able to take part in the work of the Committee without voting rights for a period of six months following the entry into force of this Agreement.

3. The Secretary-General of the Council of the European Communities shall notify each of the Contracting Parties of the deposit of the notifications provided for in paragraph 1 and of the date of entry into force of this Agreement.

Article 7

This Agreement shall apply, on the one hand, to the territories in which the Treaty establishing the European Economic Community is applied and under the conditions laid down in that Treaty and, on the other hand, to the territories of the participating non-member States.

Article 8

This Agreement, drawn up in a single original in the Danish, Dutch, English, French, German, Greek and Italian languages, each text being equally authentic, shall be deposited in the archives of the General Secretariat of the Council of the European Communities, which shall transmit a certified copy to each of the Contracting Parties.

Done at Brussels on the fourth day of December in the year one thousand nine hundred and eighty-five.

Purpose of the Project

1. Artificial intelligence (AI) and pattern recognition (PR) are now recognized as areas of great importance in the current development of information technology. The importance comes partly from new products which have been introduced as by-products of AI and PR research, such as LISP technology, expert systems speech synthesizer, etc. In addition, the challenges of artificial intelligence and pattern recognition have proved excellent motors for advancing information technology.

Recent national programmes and the Esprit programme of the European Communities have taken into account these developments. Most of these programmes are industrially oriented, in the sense that products are expected to be generated in a fairly short period of time and the major participants in the projects are large industrial companies. There is therefore a need for a complementary action programme which would specifically benefit advanced research and could contribute to education in AI and PR.

2. The main purpose of the Project is to create an environment and mechanisms to:

- (a) initiate and stimulate cooperative research in AI and PR;
- (b) facilitate the exchange of ideas, identification of problems and harmonization of solution strategies;
- (c) coordinate existing activities at European level;
- (d) transfer possible solutions found in research into developments in these areas to other environments (e.g. industry);
- (e) strengthen the scarce educational resources available in Europe;
- (f) strengthen centres of excellence in Europe,

by means of the following actions:

- (a) short and longer-term exchange of researchers;
- (b) sponsoring of working groups and workshops for problem identification;
- (c) sponsoring collaborative research projects;
- (d) sponsoring work in the form of small special projects (implementation, pilot projects, studies, etc.);
- (e) sponsoring advanced courses;
- (f) granting fellowships to enable students or advanced staff to take part in collaborative research projects;
- (g) sponsoring usage of advanced information exchange systems.

3. *Technical objectives*

This programme covers basic research enabling the development of advanced tools for artificial intelligence and pattern recognition. The areas include methods for knowledge bases design, distributed knowledge bases systems, logic programming and parallelism and advanced pattern recognition.

Proposals may address the following topics:

- (a) knowledge acquisition and analysis (ICAI);
- (b) learning and inductive inference;
- (c) automatic programming;
- (d) distributed and cooperative problem solving;
- (e) man-computer synergism;
- (f) development of efficient systems for symbolic computation;
- (g) parallelism and distribution in logic programming systems;
- (h) non-monotonic theorem provers;
- (i) interfacing high-level and low-level processing for signal understanding: the domains of development include speech understanding, image understanding and specific signal understanding:
 - (i) KR and cognitive modelling,
 - (ii) goal-driven feature extraction using syntax and semantic ('segmentation by recognition') with emphasis on the control problem;
- (j) 3D vision and movement understanding (hardware, software);
- (k) architecture and specific hardware for signal understanding with emphasis on the dependence between algorithm and architectures (parallelism).

ANNEX B

Terms of reference and composition of the Community-COST Concertation Committee on artificial intelligence and pattern recognition

1. The Committee shall:

1.1. contribute to the optimum execution of the concerted action project giving its opinion on all its aspects, including in particular:

- (a) promoting and coordinating activities at national level within the concerted action;**
- (b) defining subjects of particular importance or of common interest;**
- (c) allocating financial support from the coordination fund;**
- (d) selecting contractors for specific tasks;**
- (e) appointing the Project leader, if any;**
- (f) giving guidance to the Project leader, if any;**

1.2. evaluate the results of the projects and draw conclusions as to their application;

1.3. be responsible for the exchange of information referred to in Article 5(1) of the Agreement.

2. The Committee's reports and opinions shall be forwarded to the States.

3. The Committee shall be composed of one delegate from the Commission, one delegate from each participating non-member State, one delegate from each Member State representing its national programme, and the Project leader, if any. Each delegate may be accompanied by experts.

The Committee may invite representatives of users, of CEPT and of European bodies supporting standardization activities, to give their views.

ANNEX C

Financing Rules

Article 1

The provisions lay down the financial rules referred to in Article 4 of the Agreement.

Article 2

On the entry into force of the Agreement, the Commission shall send to each of the participating non-member States a call for funds corresponding to the amount laid down in Article 4 of the Agreement.

This contribution shall be expressed both in ECU and in the currency of the State concerned, the value of the ECU being defined in the Financial Regulation applicable to the general budget of the European Communities and determined on the date of the call for funds.

The total contributions shall cover the travel and subsistence costs of the delegates to the Committee, in addition to the coordination costs proper.

Each participating non-member State shall pay its contribution to the coordination costs under the Agreement three months after the issue of the call for funds by the Commission at the latest. Any delay in the payment shall give rise to the payment of interest by the participating non-member State concerned at a rate equal to the highest discount rate obtaining in the States on the due date. The rate shall be increased by 0.25 of a percentage point for each month of delay. The increased rate shall be applied to the entire period of delay.

Article 3

The funds paid by participating non-member States shall be credited to the concerted action project as budget receipts allocated to a heading in the statement of revenue of the general budget of the European Communities (Commission section).

Article 4

The provisional schedule for the coordination costs referred to in Article 4 of the Agreement is appended hereto.

Article 5

The Financial Regulation in force applicable to the general budget of the European Communities shall apply to the management of the appropriations.

Article 6

At the end of each financial year, a statement of appropriations for the concerted action project shall be prepared and transmitted to the participating non-member States for information.

APPENDIX

Provisional timetable for the concerted action project: artificial intelligence and pattern recognition (COST Project 13) Budget Item 7702 'Community operations for the development of data processing'

ECU

	1985		1986		1987		1988		Total	
	CA	PA	CA	PA	CA	PA	CA	PA	CA	PA
I Initial estimate of overall requirements:										
(a) Administrative operating expenditure and contracts	1 300 000	350 000	—	400 000	—	350 000	—	200 000	1 300 000	1 300 000
Total	1 300 000	350 000	—	400 000	—	350 000	—	200 000	1 300 000	1 300 000
II Revised estimate of expenditure taking into account additional requirements arising from the accession of participating non-member States										
(a) Administrative operating expenditure and contracts	1 300 000	350 000	358 000	520 000	—	470 000	—	318 000	1 658 000	1 658 000
III Difference between I and II to be covered by contributions from participating non-member States	0	0	358 000	120 000	—	120 000	—	118 000	358 000	358 000

CA = commitment appropriations.

PA = payment appropriations.

**Community-COST Concertation Agreement
on a concerted action project in the field
of artificial intelligence
and pattern recognition**

(COST Project 13)

Decision of Community programmes: 22.11.1984

Date of entry into force of the action: 1.1.1986

Duration: 21.11.1986

Contracting Parties	Date of signing	Date of entry into force
EC	4.12.1985	4.12.1985
Austria	4.12.1986	4.12.1986
Switzerland	4.12.1985	4.12.1985
Norway	4.12.1985	4.12.1985
Finland	4.12.1985	4.12.1985
Sweden	4.12.1985	4.12.1985

**Agreement
extending and amending
the Community-COST Concertation Agreement
on a concerted action project
in the field of shore-based
marine navigation aid systems**

(COST Project 301)

Council Decision

of 4 February 1986

concerning the conclusion of an Agreement extending and amending
the Community-COST Concertation Agreement on a concerted action
project in the field of shore-based marine navigation aid systems

(COST Project 301)

(86/22/EEC)¹

THE COUNCIL OF THE EUROPEAN COMMUNITIES,

HAVING regard to the Treaty establishing the European Economic Community,

HAVING regard to the draft Decision submitted by the Commission,

WHEREAS, by Decision 86/5/EEC,² the Council extended until 31 December 1986 and amended Decision 82/887/EEC of 13 December 1982 adopting a concerted action project for the European Economic Community in the field of shore-based marine navigation aid systems;³

WHEREAS by its Decision of 4 May 1982 the Council authorized the Commission to negotiate an Agreement with the third countries participating in European cooperation in the field of scientific and technical research (COST) for the implementation of a concerted action project on shore-based marine navigation aid systems;

WHEREAS, by Decision 83/124/EEC,⁴ the Council approved a Community-COST Concertation Agreement on a concerted action project in the field of shore-based marine navigation aid systems (COST Project 301), negotiated with the Kingdom of Spain, the Republic of Finland, the Kingdom of Norway and the Kingdom of Sweden;

WHEREAS, since 1 January 1986 Spain has become a Member of the Community;

WHEREAS the Commission has negotiated with the Republic of Finland, the Kingdom of Norway and the Kingdom of Sweden an Agreement extending and amending the abovementioned Concertation Agreement;

WHEREAS that Agreement should be approved,

HAS DECIDED AS FOLLOWS:

Article 1

The Agreement extending and amending the Community-COST Concertation Agreement on a concerted action project in the field of shore-based marine navigation aid systems (COST Project 301) is hereby approved on behalf of the Community.

¹ OJ No L 33, 8. 2. 1986.

² OJ No L 18, 24. 1. 1986.

³ OJ No L 378, 31. 12. 1982.

⁴ OJ No L 84, 30. 3. 1983.

The text of the Agreement is attached to this Decision.

Article 2

The President of the Council is hereby authorized to designate the persons empowered to sign the Agreement in order to bind the Community.

Done at Brussels, 4 February 1986.

For the Council

The President

W. F. van EEKELEN

**Agreement
extending and amending
the Community-COST Concertation Agreement
on a concerted action project
in the field of shore-based
marine navigation aid systems**

(COST Project 301)

THE EUROPEAN ECONOMIC COMMUNITY,

hereinafter referred to as 'the Community',

and

THE REPUBLIC OF FINLAND, THE KINGDOM OF NORWAY AND THE
KINGDOM OF SWEDEN,

hereinafter referred to as 'the participating non-member States',

WHEREAS the Community-COST Concertation Agreement on a concerted action project in the field of shore-based marine navigation aid systems (COST Project 301), hereinafter referred to as 'the Agreement' signed by the Community, the Republic of Finland, The Kingdom of Norway, the Kingdom of Spain and the Kingdom of Sweden, will expire on 31 December 1985;

WHEREAS by its Decision 86/5/EEC the Council of the European Communities extended until 31 December 1986 and amended the Community concerted action project on shore-based marine navigation aid systems;

WHEREAS it is in the common interest of the Community and the participating non-member States, hereinafter referred to as 'the Contracting Parties' to continue the research covered by the Agreement;

WHEREAS the extension of the Agreement necessitates supplementary contributions by the Contracting Parties,

HAVE AGREED AS FOLLOWS:

Article 1

The Agreement is hereby extended for the period 1 January to 31 December 1986.

Article 2

The table attached to Annex C to the Agreement shall be replaced by that appearing in this Agreement.

Article 3

The supplementary financial contribution from the Contracting Parties to the coordination costs shall be:

- (a) 200 000 ECU from the Community,
- (b) 16 600 ECU from each participating non-member State.

The ECU is defined in the Financial Regulation applicable to the general budget of the European

Communities and in the financial provisions adopted pursuant to that Regulation.

Article 4

This Agreement shall apply, on the one hand, to the territories in which the Treaty establishing the European Economic Community is applied and under the conditions laid down in that Treaty, and, on the other hand, to the territories of the participating non-member States.

Article 5

This Agreement shall enter into force on 1 January 1986.

Article 6

This Agreement, drawn up in a single original in the Danish, Dutch, English, French, German, Greek, Italian, Portuguese and Spanish languages, each text being equally authentic, shall be deposited in the archives of the General Secretariat of the Council of the European Communities, which shall transmit a certified copy to each of the Contracting Parties.

Done at Brussels on the fourteenth day of May in the year one thousand nine hundred and eighty-six.

ANNEX

Provisional timetable for the concerted action project 'Shore-based marine navigation aid systems'

ECU

	1983		1984		1985 ⁵		1986		1987		Total	
	Commitments undertaken	Payment made	Commitments undertaken	Payment made	CA ¹	PA ¹	CA	PA	CA	PA	CA	PA
I Initial estimate of overall requirements:												
(a) Staff	1 152	1 152	24 002	23 988	34 100	34 100 (14)	35 100	35 100	—	pm	94 354	94 354
(b) Administrative operating expenditure	114 693	98 448	153 255	92 736	125 000 (28 998)	125 000 (105 762)	164 900	164 900	—	pm	586 846	586 846
(c) Contracts	520 767	121 115	262 315	239 455	340 900 (494 818)	340 900 (117 330)	pm	305 000	—	495 000	1 618 800	1 618 800
Total (outstanding from 1984)	636 612 ⁴	220 715	439 572	356 179	500 000 ⁵ (523 816) ³	500 000 ⁵ (223 106)	200 000	505 000	—	495 000	2 300 000	2 300 000
II Revised estimate of expenditure taking into account additional requirements arising from the accession of participating non-member States:	²	²	²	²								
(a) Staff	1 152	1 152	24 002	23 988	34 100	34 144	35 100	35 100	—	pm	94 354	94 354
(b) Administrative operating expenditure	114 393	98 448	213 255	152 736	248 700	325 464	214 700	214 700	—	pm	791 348	791 348
(c) Contracts	595 969	151 471	494 353	516 339	835 718	458 230	pm	305 000	—	495 000	1 926 040	1 926 040
Total	711 814 ⁴	251 071	731 610	693 063	1 118 518	817 808	260 000	554 800	—	495 000	2 811 742	2 811 742
III Difference between I and II to be covered by contributions from participating non-member States												
	75 202	30 356	292 038	336 884	94 702	94 702	49 800	49 800	—	pm	511 742	511 742

¹ CA = Commitment appropriations; PA = Payment appropriations.

² Including the opening of appropriations entered on 31 December 1984 under COST Agreements with non-member States.

³ The scale of existing sums results from the allocation of appropriations at the end of 1984, totalling 292 038 ECU, emanating from the revenue accruing from non-member States' contributions.

⁴ Taking into account the amount of 17 967 ECU released during the 1984 financial year.

⁵ The 1985 budget having allocated a credit of 200 000 ECU in CA and 300 000 ECU in PA, transfer No 11/85 of 300 000 ECU in CA and 200 000 ECU in PA has been approved by the budget authority.

**Agreement
extending and amending
the Community-COST Concertation Agreement
on a concerted action project
in the field of shore-based
marine navigation aid systems**

(COST Project 301)

Decision of Community programmes: 13.12.1982

Date of entry into force of the action: 1.1.1986

Duration: 31.12.1986

Contracting Parties	Date of signing	Date of entry into force
EC	14.5.1986	14.5.1986
Norway	14.5.1986	14.5.1986
Finland	14.5.1986	14.5.1986
Sweden	14.5.1986	14.5.1986

**Memorandum of Understanding
for the implementation of a European research project
on criteria for the choice and definition of
healthy volunteers and/or patients
for Phases I and II studies
in drug development**

(COST Project B 1)

**Memorandum of Understanding
for the implementation of a European research project
on criteria for the choice and definition of
healthy volunteers and/or patients
for Phases I and II studies
in drug development**

(COST Project B 1)

The Signatories to this Memorandum of Understanding, declaring their common intention to take part in a European research project on medical and health research concerning drugs have reached the following understandings:

Section 1

1. The Signatories intend to cooperate in a project to promote research with regard to criteria for the choice and definition of healthy volunteers and/or patients for Phases I and II studies in drug development hereinafter referred to as the 'Project'.

2. The main objectives of the Project are:

- (a) to optimize the capacity and economic efficiency of drug use throughout Europe;
- (b) to increase the efficiency of relevant parts of the national programmes through mobilizing the available research potential to achieve the objectives of the Project;
- (c) to promote efficient transfer of this information into application in the pharmaceutical industry.

3. The Signatories hereby declare their intention of carrying out the Project jointly, in accordance with the general description given in Annex II, adhering as far as possible to a timetable to be decided by the Management Committee referred to in Annex I.

4. The Project will be carried out through concerted action, in accordance with the provisions of Annex I.

5. The overall value of the activities of the Signatories under the Project is estimated at approximately 25 million ECU at 1985 prices.

6. The Signatories will make every effort to ensure that the necessary funds are made available under their internal financing procedures.

Section 2

Signatories intend to take part in the Project in one or several of the following ways:

- (a) by carrying out studies and research in their technical services or public research establishments (hereinafter referred to as 'public research establishments');
- (b) by concluding contracts for studies and research with organizations (hereinafter referred to as 'research contractors');
- (c) by contributing to the provision of a Secretariat and/or other coordinatory services or activities necessary for the aims of the Project to be achieved.
- (d) by making information on existing relevant research, including all necessary basic data, available to other Signatories;
- (e) by arranging for inter-laboratory visits and by cooperating in a small-scale exchange of staff in the later stages.

Section 3

1. This Memorandum of Understanding will take effect for five years on its signing by at least four Signatories.

2. This Memorandum of Understanding may be amended in writing at any time by arrangement between the Signatories.

3. A Signatory which intends, for any reason whatsoever, to terminate its participation in the Project will notify the Secretary-General of the Council of the European Communities of its intention as soon as possible, preferably not later than three months beforehand.

4. If at any time the number of Signatories falls below four, the Management Committee referred to in Annex I will examine the situation which has arisen and will consider whether or not this Memorandum of Understanding should be terminated by decision of the Signatories.

Section 4

1. This Memorandum of Understanding will, for a period of six months from the date of the first signing, remain open for signing, by the governments which took part in the Ministerial Conference held in Brussels on 22 and 23 November 1971 and also by the European Communities.

The governments referred to in the first subparagraph and the European Communities may take part in the Project on a provisional basis during the abovementioned period, even though they may not have signed this Memorandum of Understanding.

2. After this period of six months has elapsed, applications to sign this Memorandum of Understanding from the governments referred to in paragraph 1 or from the European Communities will be decided upon by the Management Committee referred to in Annex I, which may attach special conditions thereto.

3. Any Signatory may designate one or more competent public authorities or bodies to act on its behalf in respect of the implementation of the Project.

Section 5

This Memorandum of Understanding is of an exclusively recommendatory nature. It will not create any binding legal effect in public international law.

Section 6

1. The Secretary-General of the Council of the European Communities will inform all Signatories of the signing dates and date of entry into effect of this Memorandum of Understanding and will forward to them all notices which he has received under this Memorandum of Understanding.

2. This Memorandum of Understanding will be deposited with the General Secretariat of the Council of the European Communities. The Secretary-General will transmit a certified copy to each of the Signatories.

Done at Brussels on the twenty-fourth day of February in the year one thousand nine hundred and eighty-six.

ANNEX I

Coordination of the Project

CHAPTER I

1. A Management Committee (hereinafter referred to as 'the Committee') will be set up, composed of not more than two representatives for each Signatory. Each representative may be accompanied by such experts or advisers as he or she may need.

The governments which took part in the Ministerial Conference held in Brussels on 22 and 23 November 1971 and the European Communities may, in accordance with the second paragraph of Section 4 (1) of the Memorandum of Understanding, participate in the work of the Committee before becoming Signatories to the Memorandum without, however, having the right to vote.

When the European Communities are not a Signatory to the Memorandum of Understanding, a representative of the Commission of the European Communities may attend Committee meetings as an observer.

2. The Committee will be responsible for coordinating the Project and in particular for making the necessary arrangements for:

- (a) the choice of research topics on the basis of those provided for in Annex II, including any modifications submitted to Signatories by the competent public authorities or bodies; any proposed changes to the Project framework will be referred for an opinion to the Committee of Senior Officials on Scientific and Technical Research (COST);
- (b) advising on the direction which work should take;
- (c) drawing up detailed plans and defining methods for the different phases of execution of the Project;
- (d) coordinating the contributions referred to in subparagraph (c) of Section 2 of the Memorandum of Understanding;
- (e) keeping abreast of the research being done in the territory of the Signatories and in other countries;
- (f) liaising with appropriate international bodies;
- (g) exchanging research results among the Signatories to the extent compatible with adequate safeguards for the interests of Signatories, their competent public authorities or bodies and research contractors in respect of industrial property rights and commercially confidential material;
- (h) drawing up the annual interim reports and the final report to be submitted to the Signatories and circulated as appropriate;
- (i) dealing with any problem which may arise out of the execution of the Project, including those relating to possible special conditions to be attached to accession to the Memorandum of Understanding in the case of applications submitted more than six months after the date of the first signing.

3. The Committee will establish its rules of procedure.

4. The Secretariat of the Committee will be provided at the invitation of the Signatories by either the Commission of the European Communities or one of the Signatory States.

CHAPTER II

1. Signatories will invite public research establishments or research contractors in their territories to submit proposals for research work to their respective competent public authorities or bodies. Proposals accepted under this procedure will be submitted to the Committee.
2. Signatories will request public research establishments or research contractors, before the Committee takes any decision on a proposal, to submit to the public authorities or bodies referred to in paragraph 1 notification of previous commitments and industrial property rights which they consider might preclude or hinder the execution of the projects of the Signatories.

CHAPTER III

1. Signatories will request their public research establishments or research contractors to submit periodical progress reports and a final report.
2. The progress reports will be distributed to the Signatories only, through their representatives on the Committee. The Signatories will treat these progress reports as confidential and will not use them for purposes other than research work. The final reports on the results obtained will have much wider circulation, covering at least the Signatories' public research establishments or research contractors concerned.

CHAPTER IV

1. In order to facilitate the exchange of results referred to in Chapter I, paragraph 2 (g), and subject to national law, Signatories intend to ensure, through the inclusion of appropriate terms in research contracts, that the owners of industrial property rights and technical information resulting from work carried out in implementation of that part of the Project assigned to them under Annex II (hereinafter referred to as 'the research results') will be under an obligation, if so requested by another Signatory (hereinafter referred to as 'the applicant Signatory'), to supply the research results and to grant to the applicant Signatory or to a third party nominated by the applicant Signatory a licence to use the research results and such technical know-how incorporated therein as is necessary for such use if the applicant Signatory requires the granting of a licence for the execution of:

- (a) work in respect of the Project;
- (b) research and development work within the framework of the applicant Signatory's projects in the same field;
- (c) research and development work within the framework of any associated European project undertaken subsequently and in which all or several of the signatories may be prepared to take part.

Such licences will be granted on fair and reasonable terms, having regard to commercial usage.

2. Signatories will, by including appropriate clauses in contracts placed with research contractors, provide for the licence referred to in paragraph 1 to be extended on fair and reasonable terms, having regard to commercial usage, to previous industrial property rights and to prior technical know-how acquired by the research contractor in so far as the research results could not otherwise be used for the purpose referred to in paragraph 1.

Where a research contractor is unable or unwilling to agree to such extension, the Signatory will submit the case to the Committee, before the contract is concluded; thereafter, the Committee will state its position on the case, if possible after having consulted the interested parties.

3. Signatories will take any steps necessary to ensure that the fulfilment of the conditions laid down in the present Chapter will not be affected by any subsequent transfer of rights to ownership of the research results. Any such transfer will be notified to the Committee.
4. If a Signatory terminates its participation in the Project, any rights of use which it has granted, or is obliged to grant, to, or has obtained from, other Signatories in application of the Memorandum of Understanding and concerning work carried out up to the date on which the said Signatory terminates its participation will continue thereafter.
5. The provisions of paragraphs 1 to 4 will continue to apply after the period of operation of the Memorandum of Understanding has expired and will apply to industrial property rights as long as these remain valid, and to unprotected inventions and technical know-how until such time as they pass into the public domain other than through disclosure by the licensee.

ANNEX II

General description of the work provided for under the Project

1. Development and validation of methods, that is to say standardized protocols, quality control and supply of marker products.
2. Genetic factors affecting the enzymes of drug metabolism, that is to say the selection of adequate marker substrates, which permit the definition of 'at risk' populations in different countries.
3. Probe substrates for the study of drug metabolism, that is to say the choice of substrates permitting the study of oxidation, effects of age, environmental factors and the effects of pathological factors on the elimination of drugs.
4. *In vitro* studies of drug metabolism, that is to say setting up a human tissue bank, validation of *in vivo* methods and metabolism of new drugs.

**Memorandum of Understanding
for the implementation of a European research project
on criteria for the choice and definition of
healthy volunteers and/or patients
for Phases I and II studies
in drug development**

(COST B1)

Date of entry into force of the action: 24.2.1986

Duration: 23.2.1991

Contracting Parties	Date of signing	Date of entry into force
Denmark	24.2.1986	24.2.1986
Germany (FR of)	10.4.1986	10.4.1986
France	24.2.1986	24.2.1986
Norway	24.2.1986	24.2.1986
Switzerland	28.4.1986	28.4.1986
Finland	24.2.1986	24.2.1986
Sweden	24.2.1986	24.2.1986

**Memorandum of Understanding
for the implementation of a European research project
on optical switching
and routing devices**

(COST Project 216)

Memorandum of Understanding for the implementation of a European research project on optical switching and routing devices

(COST Project 216)

The Signatories to this Memorandum of Understanding, declaring their common intention to take part in a European research project on the technology of optical switching devices have reached the following understandings:

Section 1

1. The Signatories intend to cooperate in a project to promote research into the field of the technology and the performance of devices for switching and routing optical signals in fibreoptic communication systems, hereinafter referred to as the 'Project'.

2. The main objective of the Project is to set up tentative specifications for optical switching and routing devices based on the fabrication and evaluation of such devices in the participating laboratories as well as on their performance in prototype fibreoptic systems.

3. The Signatories hereby declare their intention of carrying out the Project jointly, in accordance with the general description given in Annex II, adhering as far as possible to a timetable to be decided by the Management Committee referred to in Annex I.

4. The Project will be carried out through concerted action, in accordance with the provisions of Annex I.

5. The overall value of the activities of the Signatories under the Project is estimated at approximately 2.5 million ECU overall at 1985 prices.

6. The Signatories will make every effort to ensure that the necessary funds are made available under their internal financing procedures.

Section 2

Signatories intend to take part in the Project in one or several of the following ways:

(a) by carrying out studies and research in their technical services or public research establishments (hereinafter referred to as 'public research establishments');

(b) by concluding contracts for studies and research with organizations (hereinafter referred to as 'research contractors');

(c) by contributing to the provision of a Secretariat and/or other coordinatory services or activities necessary for the aims of the Project to be achieved;

(d) by making information on existing relevant research, including all necessary basic data, available to other Signatories;

(e) by arranging for inter-laboratory visits and by cooperating in a small-scale exchange of staff in the later stages.

Section 3

1. This Memorandum of Understanding will take effect for five years on its signing by at least four Signatories.

2. This Memorandum of Understanding may be amended in writing at any time by arrangement between the Signatories.

3. A Signatory which intends, for any reason whatsoever, to terminate its participation in the Project will notify the Secretary-General of the Council of the European Communities of its intention as soon as possible, preferably not later than three months beforehand.

4. If at any time the number of Signatories falls below four, the Management Committee referred to in Annex I will examine the situation which has arisen and will consider whether or not this Memorandum of Understanding should be terminated by decision of the Signatories.

Section 4

1. This Memorandum of Understanding will, for a period of six months from the date of the first signing, remain open for signing, by the governments which took part in the Ministerial Conference held in Brussels on 22 and 23 November 1971 and also by the European Communities.

The governments referred to in the first subparagraph, and the European Communities may take part in the Project on a provisional basis during the abovementioned period, even though they may not have signed this Memorandum of Understanding.

2. After this period of six months has elapsed, applications to sign this Memorandum of Understanding from the governments referred to in paragraph 1 or from the European Communities will be decided upon by the Management Committee re-

ferred to in Annex I, which may attach special conditions thereto.

3. Any Signatory may designate one or more competent public authorities or bodies to act on its behalf in respect of the implementation of the Project.

Section 5

This Memorandum of Understanding is of an exclusively recommendatory nature. It will not create any binding legal effect in public international law.

Section 6

1. The Secretary-General of the Council of the European Communities will inform all Signatories of the signing dates and date of entry into effect of this Memorandum of Understanding and will forward to them all notices which he has received under this Memorandum of Understanding.

2. This Memorandum of Understanding will be deposited with the General Secretariat of the Council of the European Communities. The Secretary-General will transmit a certified copy to each of the Signatories.

Done at Brussels on the twenty-seventh day of February in the year one thousand nine hundred and eighty-six.

ANNEX I

Coordination of the Project

CHAPTER I

1. A Management Committee (hereinafter referred to as 'the Committee') will be set up, composed of not more than two representatives for each Signatory. Each representative may be accompanied by such experts or advisers as he or she may need.

The governments which took part in the Ministerial Conference held in Brussels on 22 and 23 November 1971 and the European Communities may, in accordance with the second subparagraph of Section 4(1) of the Memorandum of Understanding, participate in the work of the Committee before becoming Signatories to the Memorandum without, however, having the right to vote.

When the European Communities are not a Signatory to the Memorandum of Understanding, a representative of the Commission of the European Communities may attend Committee meetings as an observer.

2. The Committee will be responsible for coordinating the Project and in particular for making the necessary arrangements for:

- (a) the choice of research topics on the basis of those provided for in Annex II, including any modifications submitted to Signatories by the competent public authorities or bodies; any proposed changes to the Project framework will be referred for an opinion to the Technical Committee 'Telecommunications' (COST);
- (b) advising on the direction which work should take;
- (c) drawing up detailed plans and defining methods for the different phases of execution of the Project;
- (d) coordinating the contributions referred to in subparagraph (c) of Section 2 of the Memorandum of Understanding;
- (e) keeping abreast of the research being done in the territory of the Signatories and in other countries;
- (f) liaising with appropriate international bodies;
- (g) exchanging research results among the Signatories to the extent compatible with adequate safeguards for the interests of Signatories, their competent public authorities or bodies and research contractors in respect of industrial property rights and commercially confidential material;
- (h) drawing up the annual interim reports and the final report to be submitted to the Signatories and circulated as appropriate; drawing up a non-confidential report to be submitted annually to the Technical Committee 'Telecommunications' (COST);
- (i) dealing with any problem which may arise out of the execution of the Project, including those relating to possible special conditions to be attached to accession to the Memorandum of Understanding in the case of applications submitted more than six months after the date of the first signing.

3. The Committee will establish its rules of procedure.

4. The Secretariat of the Committee will be provided at the invitation of the Signatories by either the Commission of the European Communities or one of the Signatory States.

CHAPTER II

1. Signatories will invite public research establishments or research contractors in their territories to submit proposals for research work to their respective competent public authorities or bodies. Proposals accepted under this procedure will be submitted to the Committee.
2. Signatories will request public research contractors, before the Committee takes any decision on a proposal, to submit to the public authorities or bodies referred to in paragraph 1 notification of previous commitments and industrial property rights which they consider might preclude or hinder the execution of the projects of the Signatories.

CHAPTER III

1. Signatories will request their public research establishments or research contractors to submit periodical progress reports and a final report.
2. The progress reports will be distributed to the Signatories only, through their representatives on the Committee. The Signatories will treat these progress reports as confidential and will not use them for purposes other than research work. The final reports on the results obtained will have much wider circulation, covering at least the Signatories' public research establishments or research contractors concerned.

CHAPTER IV

1. In order to facilitate the exchange of results referred to in Chapter I, paragraph 2(g), and subject to national law, Signatories intend to ensure, through the inclusion of appropriate terms in research contracts, that the owners of industrial property rights and technical information resulting from work carried out in implementation of that part of the Project assigned to them under Annex II (hereinafter referred to as 'the research results') will be under an obligation, if so requested by another Signatory (hereinafter referred to as 'the applicant Signatory'), to supply the research results and to grant to the applicant Signatory or to a third party nominated by the applicant Signatory a licence to use the research results and such technical know-how incorporated therein as is necessary for such use if the applicant Signatory requires the granting of a licence for the execution of:

- (a) work in respect of the Project;
- (b) research and development work within the framework of the applicant Signatory's projects in the same field;
- (c) research and development work within the framework of any associated European project undertaken subsequently and in which all or several of the Signatories may be prepared to take part.

Such licences will be granted on fair and reasonable terms, having regard to commercial usage.

2. Signatories will, by including appropriate clauses in contracts placed with research contractors, provide for the licence referred to in paragraph 1 to be extended on fair and reasonable terms, having regard to commercial usage, to previous industrial property rights and to prior technical know-how acquired by the research contractor insofar as the research results could not otherwise be used for the purpose referred to in paragraph 1.

Where a research contractor is unable or unwilling to agree to such extension, the Signatory will submit the case to the Committee, before the contract is concluded; hereafter, the Committee will state its position on the case, if possible after having consulted the interested parties.

3. Signatories will take any steps necessary to ensure that the fulfilment of the conditions laid down in the present Chapter will not be affected by any subsequent transfer of rights to ownership of the research results. Any such transfer will be notified to the Committee.

4. If a Signatory terminates its participation in the Project, any rights of use which it has granted, or is obliged to grant, to, or has obtained from, other Signatories in application of the Memorandum of Understanding and concerning work carried out up to the date on which the said Signatory terminates its participation will continue thereafter.
5. The provisions of paragraphs 1 to 4 will continue to apply after the period of operation of the Memorandum of Understanding has expired and will apply to industrial property rights as long as these remain valid, and to unprotected inventions and technical know-how until such time as they pass into the public domain other than through disclosure by the licensee.

ANNEX II

General description of the work planned for the Project

1. Purpose

The purpose of the Project is the amalgamation and coordination of national efforts to study the technology and the performance of devices for switching and routing optical signals in fibreoptic communication systems.

2. Objective of the Project

The objective of the Project is the setting-up of tentative specifications for optical switching and routing devices based on the manufacture and evaluation of such devices in the participating laboratories as well as on their performance in prototype fibreoptic systems.

3. Technical aim

The technical aim of the Project encompasses:

- (a) the study of the technology of advanced devices suitable for switching and routing of optical signals such as passive or active couplers, electrically or optically activated switches, and multiport devices with two or more optical inputs and outputs (routing devices);
- (b) the study of the techniques for characterizing the devices for use in optical communication systems (assessing loss, speed, extinction, wavelength selectivity, polarization sensitivity);
- (c) the evaluation of their current capabilities and ultimate potential in advanced systems;
- (d) the reporting of the results of the study and measurements performed.

4. Study method

(a) Phase 1

Since several devices under consideration are still in an early stage of development, a three-year phase is considered for the evaluation and comparison of suitable methods for manufacturing devices useful in practical systems and for setting up measuring equipment for their characterization.

This work will put emphasis on active and/or passive devices having serious prospect of early application in systems. The continuous exchange of information between in participants will enable them to coordinate their technological efforts and to improve their measuring equipment.

At the end of the first phase a proposal will be presented for the set-up in one or more laboratories of fibreoptic systems comprising optical switching and routing devices.

(b) Phase 2

The second phase (two years) builds on the work of the first phase and continues the work by setting up trial systems and evaluating their performance. By steady comparison of the results between the participating laboratories an improvement in system performance is expected which will lead to the establishment of preliminary specifications for the devices employed. At the end of phase two one or more systems will be presented together with detailed discussion of their capabilities and potential.

**Memorandum of Understanding
for the implementation of a European research project
on optical switching
and routing devices**

(COST Project 216)

Date of entry into force of the action: 27.2.1986

Duration: 26.2.1991

Contracting Parties	Date of signing	Date of entry into force
Denmark	27.2.1986	27.2.1986
France	27.2.1986	27.2.1986
Italy	22.8.1986	22.8.1986
Netherlands	3.7.1986	3.7.1986
United Kingdom	27.2.1986	27.2.1986
Switzerland	28.4.1986	28.4.1986
Finland	27.2.1986	27.2.1986
Sweden	24.3.1986	24.3.1986

**Memorandum of Understanding
for the implementation of
a European research project
on human factors in information services**

(COST Project 212)

Memorandum of Understanding for the implementation of a European research project on human factors in information services

(COST Project 212)

The Signatories to this Memorandum of Understanding, declaring their common intention to take part in a European research project on human factors in information services have reached the following understandings:

Section 1

1. The signatories intend to cooperate in a project to promote research into the field of the application of human factors, interdisciplinary methods and knowledge to the information services (hereinafter referred to as the 'Project').

2. The main objective of the Project is to plan and introduce new services by means of:

(a) the evaluation of the effects of additional phenomena on day-to-day life taking into consideration the following different areas of activity: telematics, electronics, statistics, socio-psychological, behavioural, economic, marketing, technical, scientific, industrial, time budget, personal security etc. according to each national situation;

(b) the evaluation of the degree of use and, therefore, acceptance of the service once the type of user has been identified.

The above evaluations need a cooperation of experts in different disciplines specially those mentioned in point (a).

3. The Signatories hereby declare their intention of carrying out the Project jointly, in accordance with the general description given in Annex II, adhering as far as possible to a timetable to be decided by the Management Committee referred to in Annex I;

4. The Project will be carried out through concerted action, in accordance with the provisions of Annex I.

5. The overall value of the activities of the Signatories under the Project is estimated at approximately 200 000 ECU at 1983 prices.

6. The Signatories will make every effort to ensure that the necessary funds are made available under their internal financing procedures.

Section 2

Signatories intend to take part in the Project in one or several of the following ways:

(a) by carrying out studies and research in their technical services or public research establishments (hereinafter referred to as 'public research establishments');

(b) by concluding contracts for studies and research with organizations (hereinafter referred to as 'research contractors');

(c) by contributing to the provision of a Secretariat and/or other coordinatory services or activities necessary for the aims of the Project to be achieved.

(d) by making information on existing relevant research, including all necessary basic data, available to other Signatories;

(e) by arranging for inter-laboratory visits and by cooperating in a small-scale exchange of staff in the later stages.

Section 3

1. This Memorandum of Understanding will take effect for three years on its signing by at least four Signatories.

2. This Memorandum of Understanding may be amended in writing at any time by arrangement between the Signatories.

3. A Signatory which intends, for any reason whatsoever, to terminate its participation in the Project will notify the Secretary-General of the Council of the European Communities of its intention as soon as possible, preferably not later than three months beforehand.

4. If at any time the number of Signatories falls below four, the Management Committee referred to in Annex I will examine the situation which has arisen and will consider whether or not this Memorandum of Understanding should be terminated by decision of the Signatories.

Section 4

1. This Memorandum of Understanding will, for a period of six months from the date of the first signing, remain open for signing, by the governments which took part in the Ministerial Conference held in Brussels on 22 and 23 November 1971 and also by the European Communities.

The governments referred to in the first subparagraph and the European Communities may take part in the Project on a provisional basis during the abovementioned period, even though they may not have signed this Memorandum of Understanding.

2. After this period of six months has elapsed, applications to sign this Memorandum of Under-

standing from the governments referred to in paragraph 1 or from the European Communities will be decided upon by the Management Committee referred to in Annex I, which may attach special conditions thereto.

3. Any Signatory may designate one or more competent public authorities or bodies to act on its behalf in respect of the implementation of the Project.

Section 5

This Memorandum of Understanding is of an exclusively recommendatory nature. It will not create any binding legal effect in public international law.

Section 6

1. The Secretary-General of the Council of the European Communities will inform all Signatories of the signing dates and date of entry into effect of this Memorandum of Understanding and will forward to them all notices which he has received under this Memorandum of Understanding.

2. This Memorandum of Understanding will be deposited with the General Secretariat of the Council of the European Communities. The Secretary-General will transmit a certified copy to each of the Signatories.

ANNEX I

Coordination of the Project

CHAPTER I

1. A Management Committee (hereinafter referred to as 'the Committee') will be set up, composed of not more than two representatives for each Signatory. Each representative may be accompanied by such experts or advisers as he or she may need.

The governments which took part in the Ministerial Conference held in Brussels on 22 and 23 November 1971 and the European Communities may, in accordance with the second paragraph of Section 4 (1) of the Memorandum of Understanding, participate in the work of the Committee before becoming Signatories to the Memorandum without, however, having the right to vote.

When the European Communities are not a Signatory to the Memorandum of Understanding, a representative of the Commission of the European Communities may attend Committee meetings as an observer.

2. The Committee will be responsible for coordinating the Project and in particular for making the necessary arrangements for:

- (a) the choice of research topics on the basis of those provided for in Annex II, including any modifications submitted to Signatories by the competent authorities or bodies; any proposed changes to the Project framework will be referred for an opinion to the COST Technical Committee 'Telecommunications';
- (b) advising on the direction which work should take;
- (c) drawing up detailed plans and defining methods for the different phases of execution of the Project;
- (d) coordinating the contributions referred to in subparagraph (c) of Section 2 of the Memorandum of Understanding;
- (e) keeping abreast of the research being done in the territory of the Signatories and in other countries;
- (f) liaising with appropriate international bodies;
- (g) exchanging research results among the Signatories to the extent compatible with adequate safeguards for the interests of Signatories, their competent public authorities or bodies and research contractors in respect of industrial property rights and commercially confidential material;
- (h) drawing up the annual interim reports and the final report to be submitted to the Signatories and circulated as appropriate;
- (i) dealing with any problem which may arise out of the execution of the Project, including those relating to possible special conditions to be attached to accession to the Memorandum of Understanding in the case of applications submitted more than six months after the date of the first signing.

3. The Committee will establish its rules of procedure.

4. The Secretariat of the Committee will be provided at the invitation of the Signatories by either the Commission of the European Communities or one of the Signatory States.

CHAPTER II

1. Signatories will invite public research establishments or research contractors in their territories to submit proposals for research work to their respective competent public authorities or bodies. Proposals accepted under this procedure will be submitted to the Committee.
2. Signatories will request public research establishments or research contractors, before the Committee takes any decision on a proposal, to submit to the public authorities or bodies referred to in paragraph 1 notification of previous commitments and industrial property rights which they consider might preclude or hinder the execution of the projects of the Signatories.

CHAPTER III

1. Signatories will request their public research establishments or research contractors to submit periodical progress reports and a final report.
2. The progress reports will be distributed to the Signatories only, through their representatives on the Committee. The Signatories will treat these progress reports as confidential and will not use them for purposes other than research work. The final reports on the results obtained will have much wider circulation, covering at least the Signatories' public research establishments or research contractors concerned.

CHAPTER IV

1. In order to facilitate the exchange of results referred to Chapter I, paragraph 2 (g), and subject to national law, Signatories intend to ensure, through the inclusion of appropriate terms in research contracts, that the owners of industrial property rights and technical information resulting from work carried out in implementation of that part of the Project assigned to them under Annex II (hereinafter referred to as 'the research results') will be under an obligation, if so requested by another Signatory (hereinafter referred to as 'the applicant Signatory'), to supply the research results and to grant to the applicant Signatory or to a third party nominated by the applicant Signatory a licence to use the research results and such technical know-how incorporated therein as is necessary for such use if the applicant Signatory requires the granting of a licence for the execution of work in respect of the Project.

Such licences will be granted on fair and reasonable terms, having regard to commercial usage.

2. Signatories will, by including appropriate clauses in contracts placed with research contractors, provide for the licence referred to in paragraph 1 to be extended on fair and reasonable terms, having regard to commercial usage, to previous industrial property rights and to prior technical know-how acquired by the research contractor in so far as the research results could not otherwise be used for the purpose referred to in paragraph 1.

Where a research contractor is unable or unwilling to agree to such extension, the Signatory will submit the case to the Committee, before the contract is concluded; thereafter, the Committee will state its position on the case, if possible after having consulted the interested parties.

3. Signatories will take any steps necessary to ensure that the fulfilment of the conditions laid down in the present Chapter will not be affected by any subsequent transfer of rights to ownership of the research results. Any such transfer will be notified to the Committee.
4. If a Signatory terminates its participation in the Project, any rights of use which it has granted, or is obliged to grant, to, or has obtained from, other Signatories in application of the Memorandum of Understanding and concerning work carried out up to the date on which the said Signatory terminates its participation will continue thereafter.

5. The provisions of paragraphs 1 to 4 will continue to apply after the period of operation of the Memorandum of Understanding has expired and will apply to industrial property rights as long as these remain valid, and to unprotected inventions and technical know-how until such time as they pass into the public domain other than through disclosure by the licensee.

General description of the work planned for the Project

Introduction

Over the past few years implementation of ever more advanced services, with regard to the processing, exchange and diffusion of information have expanded to a great extent. In the near future, because of technological progress, these services are expected to develop greatly.

However, it is likely that users will not be fully informed about these services owing to their variety and complexity and the speed with which they are introduced. In fact, users do not become sufficiently familiar with such services because they are not aware of their usefulness. Hence, most of these services are under-utilized and, consequently, they could be rejected and thus harm operating companies and manufacturers.

It is also very important to consider that the continuous use of these services may produce additional phenomena which could substantially affect day-to-day life. Therefore, if these phenomena are not properly evaluated and their effects are not suitably tested, it is possible that some drawbacks might arise, irreversible in some cases.

Preliminary proposal

The purpose of a COST action in this field is to apply human factors interdisciplinary methods and knowledge to the field of the introduction of new information services. The goal is to be able to plan and introduce new services successfully. Human factors is here understood in a broad sense and could be described on three levels:

- (a) pragmatic level: user needs, behavioural and marketing aspects;
- (b) semantic level: man-machine dialogue, user procedures;
- (c) syntactic level: equipment ergonomics, environmental aspects.

This research could be limited to the first level.

Much research is being undertaken on the other two levels; it is reported through and harmonized by CEPT-SF and CCITT II/2. Specifically, the following aspects are important:

- (a) the evaluation of the effects of additional phenomena on everyday life taking into consideration the different areas of activity: socio-psychological, behavioural, economic, marketing, technical-scientific, industrial, time-budget, personal security, etc. according to each national situation;
- (b) the evaluation of the degree of utility and, therefore, acceptance of the service once the type of user has been identified.

The next section shows a comprehensive list of human factor aspects. These are summarized below:

- (a) analysis of the degree of validity of the service, considering its efficiency in relation to the needs of the users and to socio-psychological and behavioural impacts;
- (b) analysis of service feasibility in order to identify methods and resources for creating the service. For these reasons, it is also necessary to consider the costs of production management, and the most attractive tariffs for the user. All this should lead to the best development strategy;

- (c) analysis of methods in order to achieve better contact with the user so as to evaluate the efficiency of service, considering the user reactions in terms of acceptance (total or partial) or rejection of the service;
- (d) analysis of methods for assisting the user with the objective of:
 - (i) ensuring the best operation of the service,
 - (ii) giving all information, suggestions and help (as far as training is concerned) so that service will be accepted by the user without many difficulties.

As mentioned, especially point (i) will be a subject of the proposed COST Project. The above analysis requires the cooperation of experts in different disciplines such as:

- (a) human factors;
- (b) telematics;
- (c) socio-psychology;
- (d) semantics;
- (e) statistics;
- (f) marketing;
- (g) electronics;
- (h) others.

In order to judge the efficiency degree of a service better, it is suggested that a working party of experts should be organized which could indicate the best methods for the evaluation of the human factors, taking into account each national situation.

Overview of human factors in information services

Validity

The investigation of the functional validity of a new system should emphasize the real needs of the user. In particular, it is important to have information about the user expectation and to know what type of information is to be processed (transferred or exchanged); it is also essential to know the best way to meet the user requirements. In other words, the service validity can be evaluated when it is possible to establish the efficiency — also taking into account the cost — by providing not only information which users want to use but also information of which users are not aware but which they really need. This implies a continuous knowledge of the type of user, of the way he operates and his line of activity, and it is important to bear in mind the interconnections (in some cases competition) with similar services and/or alternatives. The principal steps concerning a function validity investigation could be the following:

- (a) to be aware of the need for setting up a new service, to identify the main characteristics of the service, and to study — if possible in advance — the possible consequences;
- (b) to identify the type of user and the area in which he operates;
- (c) to identify the causes and modes with which the system could be correctly operated;
- (d) to establish the type of approach to the user and to encourage him;
- (e) to identify the type of auxiliary functions which could make the service easier and/or more useful;

- (f) to indicate the best conditions to make the service more flexible with no excessive constraints for the user.

Feasibility

Another important — if not indispensable — step is the evaluation of the feasibility of service, namely its realization. An adequate investigation is necessary to decide who will produce the equipment (at least prototypes) and organize the operation of the service — at least at an experimental stage. A method for evaluating the feasibility may be suggested by the following items:

- (a) analysis of various stages of development of service and identification of the equipment and its architecture;
- (b) the amount of equipment — especially when it is already on the market — should be under control;
- (c) identification of the structure of assembly of the various stages;
- (d) operation of the service including laboratory tests;
- (e) selection and/or training of specialized staff to optimize the service;
- (f) operation of the service at an experimental stage.

Contacts with user

Contacts with feedback from the user — or prospective user — are indispensable in order to achieve the best results from the service. These contacts should be maintained during the phases of control of the adequacy and realization as well as during the phase of assistance when the service will be operational. During the validity tests, contacts with users will be informal but at the same time all the information needed for the various phases regarding the control of validity must be obtained.

During the feasibility phase, as the service takes shape with its main characteristics, contacts with users will be made in order to show prerogatives and functions of the service, trying to raise interest and emphasizing the advantages of such a service. In other words, a promotional campaign must be carried out. Problems connected with assistance to the user will be discussed later on: at this stage we must consider how contact is to be made with the user, especially when the service starts on an experimental basis, and how to use the data resulting from the contact. As soon as the laboratory tests show the feasibility of the operation, the user will be involved and be asked to give his opinion regarding the degree of acceptance or the rejection of the service.

The organizer of the experiment will administer the tests and then collect data in order to identify those parts which operate well, those to be improved, and other parts and/or functions of the service which are useless or of negative value.

At any rate, it is essential to enable the user — participating in the experiment — to understand the use of the service correctly and make him realize the important contribution he may provide by giving his opinion on service performance. The main steps in carrying out an experimental test could be the following:

- (a) identification of objectives of quality of the service (effectiveness, performance, flexibility, etc.);
- (b) investigation on the man-system interaction (or impact) with special attention to the use of user terminals and to the user procedures to access services in the different telecommunication networks;

- (c) analysis of environmental factors (light, acoustics, placing of equipment and its flexibility, comfort, external disturbance) which may lead to fatigue or habit;
- (d) research on the mode of presenting information (in the shape of images on video unit display, or in the shape of audio, writing, graphics, pictures on hard-copy, etc.).

Concerning items (b), (c) and (d) it is possible to carry out investigation of the subjective type, collecting opinions that users will give by answering suitable questions which may be formulated in a questionnaire. When subjective trials have been carried out, the following further steps may be taken:

- (e) analysis of data (user responses) utilizing suitable statistical methods;
- (f) Identification of modifications to be introduced according to the findings of the research;
- (g) analysis of the cost of the above modifications in relation to the quality and/or quantity of information to be provided and/or exchanged;
- (h) formalities for introducing modifications which would lead to a better performance, also allowing for costs;
- (i) indications for optimizing service management.

Assistance

A prerequisite for ensuring the effectiveness of a service is the organization of the assistance.

It is important to assist the user from the beginning of the service, that is when the service becomes operational — even at an experimental stage — whether the user is charged or not. The assistance must provide an adequate explanation of the modes of operation, with possible service training, and also guarantee appropriate equipment efficiency. Furthermore, the assistance must guarantee even greater adaptability of the service to make use more flexible. The main steps for providing suitable assistance could be the following:

- (a) presentation of the service and its general performance;
- (b) illustration of the service operations, identifying the best way to meet user needs, and at the same time stimulating interest and showing the most useful applications of the service;
- (c) updating of the service performance according to the contents of the information (contents of data bases);
- (d) technical assistance to user equipment in case of faults or malfunctioning;
- (e) logistical assistance to user equipment installation;
- (f) organization of a period of testing;
- (g) lexical, syntactic and semantic updating;
- (h) instructions for the improvement of man-service impact with special attention to man-machine 'communication'.

**Memorandum of Understanding
for the implementation of
a European research project
on human factors in information services**

(COST Project 212)

Date of entry into force of the action: 25.8.1986

Duration: 24.8.1989

Contracting Parties	Date of signing	Date of entry into force
Denmark	26.6.1986	26.6.1986
Italy	25.8.1986	25.8.1986
Finland	26.3.1986	26.3.1986
Sweden	26.3.1986	26.3.1986

**Memorandum of Understanding
for the implementation of a European research project
on weather radar networking**

(COST Project 73)

Memorandum of Understanding for the implementation of a European research project on weather radar networking

(COST Project 73)

The Signatories to this Memorandum of Understanding, declaring their common intention to take part in a European research project on weather radar networking have reached the following understandings:

Section 1

1. The Signatories intend to cooperate in a project to promote research into the field of weather radar networking, hereinafter referred to as the 'Project'.

2. The main objective of the Project is to coordinate and advance European research on the exchange of weather radar data with a view to achieving hardware and software standardization, and real-time radar data compositing and pre-operational experience. This is expected to enhance the efforts which are being or will be made by States participating in European cooperation in the field of scientific and technical research (COST) in building up a meteorological radar network.

3. The Signatories hereby declare their intention of carrying out the Project jointly, in accordance with the general description given in Annex II, adhering as far as possible to a timetable to be decided by the Management Committee referred to in Annex I.

4. The Project will be carried out through concerted action, in accordance with the provisions of Annex I.

5. The overall value of the activities of the Signatories under the Project is estimated at approximately 23 million ECU overall at 1986 prices.

6. The Signatories will make every effort to ensure that the necessary funds are made available under their internal financing procedures.

Section 2

Signatories intend to take part in the Project in one or several of the following ways:

(a) by carrying out studies and research in their technical services or public research establishments (hereinafter referred to as 'public research establishments');

(b) by concluding contracts for studies and research with organizations (hereinafter referred to as 'research contractors');

(c) by making information on existing relevant research, including all necessary basic data, available to other Signatories;

(d) by arranging for inter-laboratory visits and by cooperation in a small-scale exchange of staff in the later stages.

Section 3

1. This Memorandum of Understanding will take effect for five years on its signing by at least four Signatories.

2. This Memorandum of Understanding may be amended in writing at any time by arrangement between the Signatories.

3. A Signatory which intends, for any reason whatsoever, to terminate its participation in the Project will notify the Secretary-General of the Council of the European Communities of its intention as soon as possible, preferably not later than three months beforehand.

4. If at any time the number of Signatories falls below four, the Management Committee referred to in Annex I will examine the situation which has arisen and will consider whether or not this Memorandum of Understanding should be terminated by decision of the Signatories.

Section 4

1. This Memorandum of Understanding will, for a period of six months from the date of the first signing, remain open for signing, by the governments which took part in the Ministerial Conference held in Brussels on 22 and 23 November 1979 and also by the European Communities.

The governments referred to in the first subparagraph, and the European Communities may take part in the Project on a provisional basis during the abovementioned period, even though they may not have signed this Memorandum of Understanding.

2. After this period of six months has elapsed, applications to sign this Memorandum of Understanding from the governments referred to in paragraph 1 or from the European Communities will be decided upon by the Management Committee referred to in Annex I, which may attach special conditions thereto.

3. Any Signatory may designate one or more competent public authorities or bodies to act on its

behalf in respect of the implementation of the Project.

Section 5

This Memorandum of Understanding is of an exclusively recommendatory nature. It will not create any binding legal effect in public international law.

Section 6

1. The Secretary-General of the Council of the European Communities will inform all Signatories of the signing dates and date of entry into effect of this Memorandum of Understanding and will forward to them all notices which he has received under this Memorandum of Understanding.

2. This Memorandum of Understanding will be deposited with the General Secretariat of the Council of the European Communities. The Secretary-General will transmit a certified copy to each of the Signatories.

Done at Brussels on the twenty-fifth day of September in the year one thousand nine hundred and eighty-six.

ANNEX I

Coordination of the Project

CHAPTER I

1. A Management Committee (hereinafter referred to as 'the Committee') will be set up, composed of not more than two representatives for each Signatory. Each representative may be accompanied by such experts or advisers as he or she may need.

The governments which took part in the Ministerial Conference held in Brussels on 22 and 23 November 1971 and the European Communities may, in accordance with the second subparagraph of Section 4(1) of the Memorandum of Understanding, participate in the work of the Committee before becoming Signatories to the Memorandum without, however, having the right to vote.

When the European Communities are not a Signatory to the Memorandum of Understanding, a representative of the Commission of the European Communities may attend Committee meetings as an observer.

2. The Committee will be responsible for coordinating the Project and in particular, for making the necessary arrangements for:

- (a) the choice of research topics on the basis of those provided for in Annex II, including any modifications submitted to Signatories by the competent public authorities or bodies; any proposed changes to the Project framework will be referred for an opinion to the Senior Officials Committee (COST);
- (b) advising on the direction which work should take;
- (c) drawing up detailed plans and defining methods for the different phases of execution of the Project;
- (d) coordinating the contributions referred to in subparagraph (c) of Section 2 of the Memorandum of Understanding;
- (e) keeping abreast of the research being done in the territory of the Signatories and in other countries;
- (f) liaising with appropriate international bodies;
- (g) exchanging research results among the Signatories to the extent compatible with adequate safeguards for the interests of Signatories, their competent public authorities or bodies and research contractors in respect of industrial property rights and commercially confidential material;
- (h) drawing up the annual interim reports and the final report to be submitted to the Signatories and circulated as appropriate;
- (i) dealing with any problem which may arise out of the execution of the Project, including those relating to possible special conditions to be attached to accession to the Memorandum of Understanding in the case of applications submitted more than six months after the date of the first signing.

3. The Committee will establish its rules of procedure.

4. The Secretariat of the Committee will be provided at the invitation of the Signatories by either the Commission of the European Communities or one of the Signatory States.

CHAPTER II

1. Signatories will invite public research establishments or research contractors in their territories to submit proposals for research work to their respective competent public authorities or bodies. Proposals accepted under this procedure will be submitted to the Committee.
2. Signatories will request public research contractors, before the Committee takes any decision on a proposal, to submit to the public authorities or bodies referred to in paragraph 1 notification of previous commitments and industrial property rights which they consider might preclude or hinder the execution of the projects of the Signatories.

CHAPTER III

1. Signatories will request their public research establishments or research contractors to submit periodical progress reports and a final report.
2. The progress reports will be distributed to the Signatories only, through their representatives on the Committee. The Signatories will treat these progress reports as confidential and will not use them for purposes other than research work. The final reports on the results obtained will have much wider circulation, covering at least the Signatories' public research establishments or research contractors concerned.

CHAPTER IV

1. In order to facilitate the exchange of results referred to in Chapter I, paragraph 2(g), and subject to national law, Signatories intend to ensure, through the inclusion of appropriate terms in research contracts, that the owners of industrial property rights and technical information resulting from work carried out in implementation of that part of the Project assigned to them under Annex II (hereinafter referred to as 'the research results') will be under an obligation, if so requested by another Signatory (hereinafter referred to as 'the applicant Signatory'), to supply the research results and to grant to the applicant Signatory or to a third party nominated by the applicant Signatory a licence to use the research results and such technical know-how incorporated therein as is necessary for such use if the applicant Signatory requires the granting of a licence for the execution of:

- (a) work in respect of the Project;
- (b) research and development work within the framework of the applicant Signatory's projects in the same field;
- (c) research and development work within the framework of any associated European project undertaken subsequently and in which all or several of the Signatories may be prepared to take part.

Such licences will be granted on fair and reasonable terms, having regard to commercial usage.

2. Signatories will, by including appropriate clauses in contracts placed with research contractors, provide for the licence referred to in paragraph 1 to be extended on fair and reasonable terms, having regard to commercial usage, to previous industrial property rights and to prior technical know-how acquired by the research contractor insofar as the research results could not otherwise be used for the purpose referred to in paragraph 1.

Where a research contractor is unable or unwilling to agree to such extension, the Signatory will submit the case to the Committee, before the contract is concluded; hereafter, the Committee will state its position on the case, if possible after having consulted the interested parties.

3. Signatories will take any steps necessary to ensure that the fulfilment of the conditions laid down in the present Chapter will not be affected by any subsequent transfer of rights to ownership of the research results. Any such transfer will be notified to the Committee.

4. If a Signatory terminates its participation in the Project, any rights of use which it has granted, or is obliged to grant, to, or has obtained from, other Signatories in application of the Memorandum of Understanding and concerning work carried out up to the date on which the said Signatory terminates its participation will continue thereafter.

5. The provisions of paragraphs 1 to 4 will continue to apply after the period of operation of the Memorandum of Understanding has expired and will apply to industrial property rights as long as these remain valid, and to unprotected inventions and technical know-how until such time as they pass into the public domain other than through disclosure by the licensee.

General description of the Project

1. Introduction

Radar equipment for the quantitative determination of precipitation and/or use in weather forecasting systems is operated in European countries by meteorological services as well as some other institutions. Over the last few years a number of these countries have established radar networks using existing and new weather radar equipment. These new radar networks are fully digital and involve extensive software developments.

Such networks aim to collate radar data on precipitation distribution which have already been processed locally, and to make them available to all users. Interested users, apart from meteorological services themselves, include in particular aviation, hydrological services and water authorities, as well as farming and the building trade. Interest is not confined to quantitative recording and display of areal precipitation, but extends to dangerous forms of precipitation, flood risks, etc., so that warnings can be given and precautions taken to prevent damage. The work of COST Project 72 demonstrated the technical feasibility of exchanging radar data between European countries and provided guidance on some aspects of radar system equipment. However, further research is required to ascertain the best methods of compositing radar data, to assess the utility of the data and to consider appropriate structures within which to further standardize equipment.

2. Project objectives

The objectives may be summarized as follows:

- 2.1. To specify methods and procedures for the efficient and appropriate exchange of weather radar data on an operational basis throughout Western Europe using procedures approved by the World Meteorological Organization and to gain pre-operational experience.
- 2.2. To continue research into exchanges of such data using either land or satellite communications or both.
- 2.3. To encourage the development of the competitiveness of European industry in this and associated fields by the preparation of guideline specifications for radar and display hardware and software.
- 2.4. To investigate ways of using satellite data as a possible complement for radar data in areas with sparse or no radar coverage.
- 2.5. To examine the requirements of short period forecasting techniques and numerical weather prediction systems for European radar network data.
- 2.6. To encourage training in the use of radar network systems.

3. Programme

The Signatories intend, on the basis of the present state of development of radar networks in their countries, to have investigation and research work carried out by public institutions or, if such work has already been done, to make the results available.

The topics covered by the programme are to include the following:

3.1. Radar systems

- (a) the inter-relationships between neighbouring countries with respect to national network planning;
- (b) performance characteristics of different radar techniques, e.g. conventional, dual polarization and Doppler;
- (c) local display requirements;
- (d) equipment standardization including the possibilities for modular multi-type systems;
- (c) investigation of new radar techniques.

3.2. Radar site and national network centre data processing

- (a) assessing computing requirements at radar sites and network centres;
- (b) inclusion of meteorological calibration and data correction algorithms both at radar sites and centrally;
- (c) investigation of the feasibility of precipitation type identification algorithms;
- (d) proposals for software structure to ensure compatibility at various national network centres;
- (e) composition of data from several radars to form one picture/display;
- (f) combination of satellite data and radar data;
- (g) central display requirements.

3.3. Data transmission

- (a) standardization of data formats and protocols;
- (b) optimization of interfaces in accordance with progress in communications technology;
- (c) testing of transmission media, both narrow-band lines, ground-based microwave links, and satellite links;
- (d) establishment of data-integrity and automatic error correction requirements.

3.4. Bilateral radar data exchanges

- (a) standardization of data formats and protocols;
- (b) coordination of weather radar installations in the vicinity of borders between European States;
- (c) coordination of radar operations;
- (d) establishment of communications lines for local use of high resolution data;
- (e) properties of radar data.

3.5. Network investigations

- (a) present and future operational requirements of conventional forecasting and numerical weather prediction for European radar composite data;
- (b) definition of possible European data archiving requirements for radar data and proposals for implementation;

- (c) determination of comparability of data from different radars and from other sources including satellite and conventional data;
- (d) real-time trials with data from existing networks to address particular problems or groups of problems;
- (e) use and possible integration of multi-parameter and Doppler radar systems within conventional radar networks;
- (f) considering the desirability of controls on the commercial exploitation of European composite radar data;
- (g) proposals for a *modus operandi* for a coordinated European weather radar network based upon national plans;
- (h) promotion and merging of small-area products into larger grids.

**Memorandum of Understanding
for the implementation of a European research project
on weather radar networking**

(COST Project 73)

Date of entry into force of the action: 25.9.1986

Duration: 24.9.1991

Contracting Parties	Date of signing	Date of entry into force
Belgium	16.10.1986	16.10.1986
Germany (FR of)	25.9.1986	25.9.1986
France	25.9.1986	25.9.1986
Italy	25.9.1986	25.9.1986
Netherlands	25.9.1986	25.9.1986
Portugal	25.2.1986	25.2.1986
United Kingdom	25.9.1987	25.9.1987
Austria	24.3.1987	24.3.1987
Switzerland	16.10.1986	16.10.1986
Finland	25.9.1986	25.9.1986

**Memorandum of Understanding
for the implementation of a European research project
on future telecommunication and
teleinformatics facilities for disabled people**

(COST Project 219)

Memorandum of Understanding for the implementation of a European research project on future telecommunication and teleinformatics facilities for disabled people

(COST Project 219)

The Signatories to this Memorandum of Understanding, declaring their common intention to take part in a European research project on future telecommunication and teleinformatics facilities for disabled people have reached the following understandings:

Section 1

1. The Signatories intend to cooperate in a project to promote research into the field of telecommunications and teleinformatics with the aim of proposing solutions to problems related to the needs of disabled people in giving access to new telecommunication and teleinformatics services.

2. The main objective of the Project is to collect information about existing telecommunication and teleinformatics aids and services as well as ongoing research and developments appropriate to disabled people, to stimulate activities in this field, to survey the practical needs of the disabled and to evaluate future possibilities of information technologies. The results of this preliminary project will be used to start specific projects.

3. The Signatories hereby declare their intention of carrying out the Project jointly, in accordance with the general description given in Annex II, adhering as far as possible to a timetable to be decided by the Management Committee referred to in Annex I.

4. The Project will be carried out through concerted action, in accordance with the provisions of Annex I.

5. The overall value of the activities of the Signatories under the Project is estimated at approximately 300 000 ECU overall at 1986 prices.

6. The Signatories will make every effort to ensure that the necessary funds are made available under their internal financing procedures.

Section 2

Signatories intend to take part in the Project in one or several of the following ways:

- (a) by carrying out studies and research in their technical services or public research establishments (hereinafter referred to as 'public research establishments');
- (b) by concluding contracts for studies and research with organizations (hereinafter referred to as 'research contractors');
- (c) by contributing to the provision of a Secretariat and/or other coordinatory services or activities necessary for the aims of the Project to be achieved;
- (d) by making information on existing relevant research, including all necessary basic data, available to other Signatories;
- (e) by arranging for inter-laboratory visits and by cooperating in a small-scale exchange of staff in the later stages.

Section 3

1. This Memorandum of Understanding will take effect for three years on its signing by at least four Signatories.

2. This Memorandum of Understanding may be amended in writing at any time by arrangement between the Signatories.

3. A Signatory which intends, for any reason whatsoever, to terminate its participation in the Project will notify the Secretary-General of the Council of the European Communities of its intention as soon as possible, preferably not later than three months beforehand.

4. If at any time the number of Signatories falls below four, the Management Committee referred to in Annex I will examine the situation which has arisen and will consider whether or not this Memorandum of Understanding should be terminated by decision of the Signatories.

Section 4

1. This Memorandum of Understanding will, for a period of six months from the date of the first signing, remain open for signing, by the governments which took part in the Ministerial Conference held in Brussels on 22 and 23 November 1971 and also by the European Communities.

The governments referred to in the first subparagraph, and the European Communities may take part in the Project on a provisional basis during the abovementioned period, even though they may not have signed this Memorandum of Understanding.

2. After this period of six months has elapsed, applications to sign this Memorandum of Under-

standing from the governments referred to in paragraph 1 or from the European Communities will be decided upon by the Management Committee referred to in Annex I, which may attach special conditions thereto.

3. Any Signatory may designate one or more competent public authorities or bodies to act on its behalf in respect of the implementation of the Project.

Section 5

This Memorandum of Understanding is of an exclusively recommendatory nature. It will not create any binding legal effect in public international law.

Section 6

1. The Secretary-General of the Council of the European Communities will inform all Signatories of the signing dates and date of entry into effect of this Memorandum of Understanding and will forward to them all notices which he has received under this Memorandum of Understanding.

2. This Memorandum of Understanding will be deposited with the General Secretariat of the Council of the European Communities. The Secretary-General will transmit a certified copy to each of the Signatories.

Done at Brussels on the twenty-fifth day of September in the year one thousand nine hundred and eighty-six.

ANNEX I

Coordination of the Project

CHAPTER I

1. A Management Committee (hereinafter referred to as 'the Committee') will be set up, composed of not more than two representatives for each Signatory. Each representative may be accompanied by such experts or advisers as he or she may need.

The governments which took part in the Ministerial Conference held in Brussels on 22 and 23 November 1971 and the European Communities may, in accordance with the second subparagraph of Section 4 (1) of the Memorandum of Understanding, participate in the work of the Committee before becoming Signatories to the Memorandum without, however, having the right to vote.

When the European Communities are not a Signatory to the Memorandum of Understanding, a representative of the Commission of the European Communities may attend Committee meetings as an observer.

2. The Committee will be responsible for coordinating the Project and in particular, for making the necessary arrangements for:

- (a) the choice of research topics on the basis of those provided for in Annex II, including any modifications submitted to Signatories by the competent public authorities or bodies; any proposed changes to the Project framework will be referred for an opinion to the Technical Committee 'Telecommunications' (COST);
- (b) advising on the direction which work should take;
- (c) drawing up detailed plans and defining methods for the different phases of execution of the Project;
- (d) coordinating the contributions referred to in subparagraph (c) of Section 2 of the Memorandum of Understanding;
- (e) keeping abreast of the research being done in the territory of the Signatories and in other countries;
- (f) liaising with appropriate international bodies;
- (g) exchanging research results among the signatories to the extent compatible with adequate safeguards for the interests of Signatories, their competent public authorities or bodies and research contractors in respect of industrial property rights and commercially confidential material;
- (h) drawing up the annual interim reports and the final report to be submitted to the Signatories and circulated as appropriate; drawing up a non-confidential report to be submitted annually to the Technical Committee 'Telecommunications' (COST);
- (i) dealing with any problem which may arise out of the execution of the Project, including those relating to possible special conditions to be attached to accession to the Memorandum of Understanding in the case of applications submitted more than six months after the date of the first signing.

3. The Committee will establish its rules of procedure.

4. The Secretariat of the Committee will be provided at the invitation of the Signatories by either the Commission of the European Communities or one of the Signatory States.

CHAPTER II

1. Signatories will invite public research establishments or research contractors in their territories to submit proposals for research work to their respective competent public authorities or bodies. Proposals accepted under this procedure will be submitted to the Committee.
2. Signatories will request public research contractors, before the Committee takes any decision on a proposal, to submit to the public authorities or bodies referred to in paragraph 1 notification of previous commitments and industrial property rights which they consider might preclude or hinder the execution of the projects of the Signatories.

CHAPTER III

1. Signatories will request their public research establishments or research contractors to submit periodical progress reports and a final report.
2. The progress reports will be distributed to the Signatories only, through their representatives on the Committee. The Signatories will treat these progress reports as confidential and will not use them for purposes other than research work. The final reports on the results obtained will have much wider circulation, covering at least the Signatories' public research establishments or research contractors concerned.

CHAPTER IV

1. In order to facilitate the exchange of results referred to in Chapter I, paragraph 2 (g), and subject to national law, Signatories intend to ensure, through the inclusion of appropriate terms in research contracts, that the owners of industrial property rights and technical information resulting from work carried out in implementation of that part of the Project assigned to them under Annex II (hereinafter referred to as 'the research results') will be under an obligation, if so requested by another Signatory (hereinafter referred to as 'the applicant Signatory'), to supply the research results and to grant to the applicant Signatory or to a third party nominated by the applicant Signatory a licence to use the research results and such technical know-how incorporated therein as is necessary for such use if the applicant Signatory requires the granting of a licence for the execution of:

- (a) work in respect of the Project;
- (b) research and development work within the framework of the applicant Signatory's projects in the same field;
- (c) research and development work within the framework of any associated European project undertaken subsequently and in which all or several of the Signatories may be prepared to take part.

Such licences will be granted on fair and reasonable terms, having regard to commercial usage.

2. Signatories will, by including appropriate clauses in contracts placed with research contractors, provide for the licence referred to in paragraph 1 to be extended on fair and reasonable terms, having regard to commercial usage, to previous industrial property rights and to prior technical know-how acquired by the research contractor insofar as the research results could not otherwise be used for the purpose referred to in paragraph 1.

Where a research contractor is unable or unwilling to agree to such extension, the Signatory will submit the case to the Committee, before the contract is concluded; hereafter, the Committee will state its position on the case, if possible after having consulted the interested parties.

3. Signatories will take any steps necessary to ensure that the fulfilment of the conditions laid down in the present Chapter will not be affected by any subsequent transfer of rights to ownership of the research results. Any such transfer will be notified to the Committee.
4. If a Signatory terminates its participation in the Project, any rights of use which it has granted, or is obliged to grant, to, or has obtained from, other Signatories in application of the Memorandum of Understanding and concerning work carried out up to the date on which the said Signatory terminates its participation will continue thereafter.
5. The provisions of paragraphs 1 to 4 will continue to apply after the period of operation of the Memorandum of Understanding has expired and will apply to industrial property rights as long as these remain valid, and to unprotected inventions and technical know-how until such time as they pass into the public domain other than through disclosure by the licensee.

General description of the Project

1. Introduction

Today telephony is no longer a luxury but a necessity in everybody's life. The rapidly growing importance of teleinformatics¹ indicates that the individual in the future will be more dependent on telecommunications and teleinformatics and that present methods of communication will change. Teleinformatics will in the near future be a necessity for everybody and must also benefit disabled people and take into consideration the needs of elderly people.

The rapid development of telecommunications and teleinformatics is also making it possible to develop new services for the disabled or to modify the access and use of services in such a way that disabled people and elderly people can more easily obtain benefits from these teleinformatic services. New technologies like voice recognition and speech synthesis have already been implemented as trial systems for disabled people.

However, these rapid developments can work to the disadvantage of disabled and elderly people unless urgent consideration is given to this matter now. The more complex systems will cause more people to become unable to operate them efficiently.

Various organizations are active in this field, such as the EC Commission, Directorate-General for Employment, Social Affairs and Education which issued a document in 1982 entitled 'Communications facilities for the disabled — Technical aids'. A number of telecommunication administrations in the various countries are also active in providing telecommunication facilities such as amplifying handsets, acoustic couplers, text telephones etc. for disabled people.

While coordination between experts from telecommunication and teleinformatics organizations is well established the needs of disabled people are represented by different bodies, which often have no direct contact with these experts.

A major aim of the Project is to bring together experts on telecommunications and teleinformatics and those experts with a knowledge of the needs of disabled people in order to make the use of modern telecommunication and teleinformatics services possible for disabled people.

Thus a joint effort is needed to coordinate the activities which are going on in the European countries and to study and influence the development and provision of new telecommunication and teleinformatics facilities and services (e.g. integrated broadband communication network) for disabled and elderly people.

2. Objectives of the Project

The main objectives of the Project are:

- (a) to analyse the practical needs of people who have a sensory, motor or mental disability in connection with planned and ongoing activities in the member countries;
- (b) to collect, update, collate and disseminate information and documentation on existing telecommunication aids and services and to coordinate ongoing and planned research and development activities with relevance to disabled people;

¹ Teleinformatics is a term used to describe a range of facilities provided by information technology such as videotex, teletex, intelligent network terminals etc.

- (c) to study the development of standards and the formulation of operational and technical requirements to ensure that the needs of the disabled are taken into account wherever possible;
- (d) to study the future possibilities of informatics related to the field of facilities for disabled people;
- (e) to initiate and promote national and international activities in this field.

3. Aim of the Project

The Project will involve the following major aspects:

(a) Coordination tasks

The Project will gather information about ongoing activities and support cooperation between the technical specialists of telecommunications and the specialists working for disabled people;

(b) Research tasks

The Project will evaluate new technical solutions for providing telecommunication and teleinformatics services to disabled people, and promote appropriate research activities.

The Project will produce reports and proposals as indicated in the work programme below (Chapter 5).

4. Appropriate forms of cooperation

The suggested form of cooperation is that Signatories are represented in the Management Committee by delegates who should be expected to:

- (a) attend and contribute to meetings of the Management Committee: usually two to four meetings annually;
- (b) be involved in an active programme fitting in with the objective and time scale of the Project;
- (c) seek at least annually the advice of the Technical Committee 'Telecommunications' (TCT) to achieve a working liaison between the Project and other related COST telecommunication and teleinformatics projects;
- (d) set up national working groups for specific items;
- (e) be responsible for liaising between the Management Committee and national research groups in the participating countries.

When necessary the Management Committee may arrange a working interlaboratory comparison of results, technical meetings, workshops, laboratory visits and staff exchanges, etc., in order to achieve a rapid exchange of information.

5. Work programme

The following work will be undertaken:

- 5.1. Survey of existing services and aids as well as ongoing and planned R&D work, and drafting of up-to-date documentation. Future handling and updating of the data will be considered.

- 5.2. Study of the possibilities for optimal use of a data base as a tool for this purpose.
- 5.3. Survey of the practical needs of disabled people today taking into consideration inter- and intracommunicative needs of the handicapped and the outside world. Social and human aspects will also be included when appropriate.
- 5.4. Study of the future possibilities and problems of the evolving information technology from the point of view of the handicapped.
- 5.5. Creation of contacts of appropriate groups within COST, CEPT, EC, etc., in order to increase interest, and if appropriate to exchange information.
- 5.6. Feasibility study and concepts of a telecom/teleinformatic terminal for disabled people and the systems users' operating procedures.

6. Outputs envisaged from the Project

Below is a list of results envisaged from the Project with the reservation however that the Management Committee can investigate other areas according to their experience and judgment.

- 6.1. Analysis of how the needs of disabled people could be taken into account in the development of new standards and recommendations. The transfer of these views to the standardization bodies concerned.
- 6.2. General view on how teleinformatics terminals could be adapted for various handicaps.
- 6.3. Survey of different kinds of interfaces and conversion programs used to integrate the handicapped in the outside world.
- 6.4. Study of adaptation protocols needed for communication between disabled people and the outside world. The services offered by terminals should range from telephony, text communication and data-communication to broadband picture services depending on the actual implementation.
- 6.5. Creation of an international network between research people involved in the field of telecommunications facilities for disabled people.

**Memorandum of Understanding
for the implementation of a European research project
on future telecommunication and
teleinformatics facilities for disabled people**

(COST Project 219)

Date of entry into force of the action: 25.9.1986

Duration: 24.9.1989

Contracting Parties	Date of signing	Date of entry into force
Denmark	25.9.1986	25.9.1986
France	25.9.1986	25.9.1986
Netherlands	6.11.1986	6.11.1986
United Kingdom	25.9.1986	25.9.1986
Norway	25.9.1986	25.9.1986
Finland	25.9.1986	25.9.1986
Sweden	18.12.1986	18.12.1986

**Memorandum of Understanding
for the implementation of a European research project
in the field of optical measurement techniques
for advanced optical fibre devices systems**

(COST Project 217)

Memorandum of Understanding for the implementation of a European research project in the field of optical measurement techniques for advanced optical fibre devices systems

(COST Project 217)

The Signatories to this Memorandum of Understanding, declaring their common intention to take part in a European research project on optical measurement techniques have reached the following understandings:

Section 1

1. The Signatories intend to cooperate in a project to promote research into the field of optical measurement techniques for advanced optical fibre devices systems.

2. The main objective of the Project is to enable at least one laboratory in each participating country to carry out advanced optical measurements, as well as improved methods for conventional optical measurements, in a way to produce comparable results.

3. The Signatories hereby declare their intention of carrying out the Project jointly, in accordance with the general description given in Annex II, adhering as far as possible to a timetable to be decided by the Management Committee referred to in Annex I.

4. The Project will be carried out through concerted action, in accordance with the provisions of Annex I.

5. The overall value of the activities of the Signatories under the Project is estimated at approximately 2 500 000 ECU overall at 1986 prices.

6. The Signatories will make every effort to ensure that the necessary funds are made available under their internal financing procedures.

Section 2

Signatories intend to take part in the Project in one or several of the following ways:

(a) by carrying out studies and research in their technical services or public research establish-

ments (hereinafter referred to as 'public research establishments');

(b) by concluding contracts for studies and research with organizations (hereinafter referred to as 'research contractors');

(c) by contributing to the provision of a Secretariat and/or other coordinatory services or activities necessary for the aims of the Project to be achieved;

(d) by making information on existing relevant research, including all necessary basic data, available to other Signatories;

(e) by arranging for inter-laboratory visits and by cooperating in a small-scale exchange of staff in the later stages.

Section 3

1. This Memorandum of Understanding will take effect for five years on its signing by at least four Signatories.

2. This Memorandum of Understanding may be amended in writing at any time by arrangement between the Signatories.

3. A Signatory which intends, for any reason whatsoever, to terminate its participation in the Project will notify the Secretary-General of the Council of the European Communities of its intention as soon as possible, preferably not later than three months beforehand.

4. If at any time the number of Signatories falls below four, the Management Committee referred to in Annex I will examine the situation which has arisen and will consider whether or not this Memo-

randum of Understanding should be terminated by decision of the Signatories.

Section 4

1. This Memorandum of Understanding will, for a period of six months from the date of the first signing, remain open for signing, by the governments which took part in the Ministerial Conference held in Brussels on 22 and 23 November 1971 and also by the European Communities.

The governments referred to in the first subparagraph, and the European Communities may take part in the Project on a provisional basis during the abovementioned period, even though they may not have signed this Memorandum of Understanding.

2. After this period of six months has elapsed, applications to sign this Memorandum of Understanding from the governments referred to in paragraph 1 or from the European Communities will be decided upon by the Management Committee referred to in Annex I, which may attach special conditions thereto.

3. Any Signatory may designate one or more competent public authorities or bodies to act on its behalf in respect of the implementation of the Project.

Section 5

This Memorandum of Understanding is of an exclusively recommendatory nature. It will not create any binding legal effect in public international law.

Section 6

1. The Secretary-General of the Council of the European Communities will inform all Signatories of the signing dates and date of entry into effect of this Memorandum of Understanding and will forward to them all notices which he has received under this Memorandum of Understanding.

2. This Memorandum of Understanding will be deposited with the General Secretariat of the Council of the European Communities. The Secretary-General will transmit a certified copy to each of the Signatories.

Done at Brussels on the twenty-fifth day of September in the year one thousand nine hundred and eighty-six.

ANNEX I

Coordination of the Project

CHAPTER I

1. A Management Committee (hereinafter referred to as 'the Committee') will be set up, composed of not more than two representatives for each Signatory. Each representative may be accompanied by such experts or advisers as he or she may need.

The governments which took part in the Ministerial Conference held in Brussels on 22 and 23 November 1971 and the European Communities may, in accordance with the second subparagraph of Section 4(1) of the Memorandum of Understanding, participate in the work of the Committee before becoming Signatories to the Memorandum without, however, having the right to vote.

When the European Communities are not a Signatory to the Memorandum of Understanding, a representative of the Commission of the European Communities may attend Committee meetings as an observer.

2. The Committee will be responsible for coordinating the Project and in particular, for making the necessary arrangements for:

- (a) the choice of research topics on the basis of those provided for in Annex II, including any modifications submitted to Signatories by the competent public authorities or bodies; any proposed changes to the Project framework will be referred for an opinion to the Technical Committee 'Telecommunications' (COST);
- (b) advising on the direction which work should take;
- (c) drawing up detailed plans and defining methods for the different phases of execution of the Project;
- (d) coordinating the contributions referred to in subparagraph (c) of Section 2 of the Memorandum of Understanding;
- (e) keeping abreast of the research being done in the territory of the Signatories and in other countries;
- (f) liaising with appropriate international bodies;
- (g) exchanging research results among the Signatories to the extent compatible with adequate safeguards for the interests of Signatories, their competent public authorities or bodies and research contractors in respect of industrial property rights and commercially confidential material;
- (h) drawing up the annual interim reports and the final report to be submitted to the Signatories and circulated as appropriate; drawing up a non-confidential report to be submitted annually to the Technical Committee 'Telecommunications' (COST);
- (i) dealing with any problem which may arise out of the execution of the Project, including those relating to possible special conditions to be attached to accession to the Memorandum of Understanding in the case of applications submitted more than six months after the date of the first signing.

3. The Committee will establish its rules of procedure.

4. The Secretariat of the Committee will be provided at the invitation of the Signatories by either the Commission of the European Communities or one of the Signatory States.

CHAPTER II

1. Signatories will invite public research establishments or research contractors in their territories to submit proposals for research work to their respective competent public authorities or bodies. Proposals accepted under this procedure will be submitted to the Committee.
2. Signatories will request public research contractors, before the Committee takes any decision on a proposal, to submit to the public authorities or bodies referred to in paragraph 1 notification of previous commitments and industrial property rights which they consider might preclude or hinder the execution of the projects of the Signatories.

CHAPTER III

1. Signatories will request their public research establishments or research contractors to submit periodical progress reports and a final report.
2. The progress reports will be distributed to the Signatories only, through their representatives on the Committee. The Signatories will treat these progress reports as confidential and will not use them for purposes other than research work. The final reports on the results obtained will have much wider circulation, covering at least the Signatories' public research establishments or research contractors concerned.

CHAPTER IV

1. In order to facilitate the exchange of results referred to in Chapter I, paragraph 2(g), and subject to national law, Signatories intend to ensure, through the inclusion of appropriate terms in research contracts, that the owners of industrial property rights and technical information resulting from work carried out in implementation of that part of the Project assigned to them under II (hereinafter referred to as 'the research results') will be under an obligation, if so requested by another Signatory (hereinafter referred to as 'the applicant Signatory'), to supply the research results and to grant to the applicant Signatory or to a third party nominated by the applicant Signatory a licence to use the research results and such technical know-how incorporated therein as is necessary for such use if the applicant Signatory requires the granting of a licence for the execution of:

- (a) work in respect of the Project;
- (b) research and development work within the framework of the applicant Signatory's projects in the same field;
- (c) research and development work within the framework of any associated European project undertaken subsequently and in which all or several of the Signatories may be prepared to take part.

Such licences will be granted on fair and reasonable terms, having regard to commercial usage.

2. Signatories will, by including appropriate clauses in contracts placed with research contractors, provide for the licence referred to in paragraph 1 to be extended on fair and reasonable terms, having regard to commercial usage, to previous industrial property rights and to prior technical know-how acquired by the research contractor insofar as the research results could not otherwise be used for the purpose referred to in paragraph 1.

Where a research contractor is unable or unwilling to agree to such extension, the Signatory will submit the case to the Committee, before the contract is concluded; hereafter, the Committee will state its position on the case, if possible after having consulted the interested parties.

3. Signatories will take any steps necessary to ensure that the fulfilment of the conditions laid down in the present Chapter will not be affected by any subsequent transfer of rights to ownership of the research results. Any such transfer will be notified to the Committee.

4. If a Signatory terminates its participation in the Project, any rights of use which it has granted, or is obliged to grant, to, or has obtained from, other Signatories in application of the Memorandum of Understanding and concerning work carried out up to the date on which the said Signatory terminates its participation will continue thereafter.

5. The provisions of paragraphs 1 to 4 will continue to apply after the period of operation of the Memorandum of Understanding has expired and will apply to industrial property rights as long as these remain valid, and to unprotected inventions and technical know-how until such time as they pass into the public domain other than through disclosure by the licensee.

General description of the Project

1. Purpose

The purpose of the Project is to improve international agreement on optical measuring techniques for advanced, including coherent, optical communication techniques in their pre-standard, pre-industrial phase.

2. Objective of the Project

The objective of the Project is to enable at least one laboratory in each participating country to carry out advanced optical measurements, as well as improved methods for conventional optical measurements in a way to produce comparable results.

3. Technical aim and study methods

The technical aim of the Project encompasses the study and evaluation of advanced measuring methods, the construction and maintenance of measuring sets employing these methods and the exchange of results with a view to reaching the stated objective.

- 3.1. Measurement of the optical transmission parameters of advanced structures of single mode fibres and ultimate limits (attenuation, dispersion, spot-size, cut-off wavelength).
- 3.2. Measurement of the transmission parameters of fibres for coherent communication (polarization properties, attenuation, spot-size, cut-off wavelength, splice effects).
- 3.3. Techniques of measurements of non-linear effects of single mode fibres.
- 3.4. Measurement of optical parameters of micro- and integrated optics devices in digital and coherent optical communication systems (polarizing fibre couplers, polarization controllers, interface to integrated optics).
- 3.5. Measurement techniques on active devices for coherent optical systems (frequency stability of sources, detectivity and band-width of receivers).

4. Appropriate form of cooperation

The Management Committee will seek at least annually the advice of the Technical Committee 'Telecommunications' and teleinformatics projects (TCT) to achieve a working liaison between the projects and other related COST telecommunications and teleinformatics projects.

In view of the importance of agreed measurement practices and procedures for other COST projects, the Committee is requested to circulate relevant information as soon as it is available rather than wait for the official publication of periodical or final results.

The Committee is also requested to closely coordinate its efforts with related optical projects and with COST 215 in particular. (This coordination will be particularly important during the early stages of the Project).

**Memorandum of Understanding
for the implementation of a European research project
in the field of optical measurement techniques
for advanced optical fibre devices systems**

(COST Project 217)

Date of entry into force of the action: 25.9.1986

Duration: 24.9.1991

Contracting Parties	Date of signing	Date of entry into force
Denmark	25.9.1986	25.9.1986
Germany (FR of)	25.9.1986	25.9.1986
Italy	24.3.1987	24.3.1987
Netherlands	18.12.1986	18.12.1986
United Kingdom	25.9.1986	25.9.1986
Switzerland	19.12.1986	19.12.1986
Finland	25.9.1986	25.9.1986
Turkey	22.12.1986	22.12.1986

**Community-COST Concertation Agreement
between the European Economic Community
and the Republic of Finland, the Kingdom of Norway,
the Kingdom of Sweden, the Swiss Confederation
and the Socialist Federal Republic of Yugoslavia
on a concerted action project in the field
of plant *in vitro* culture**

(COST Project 87)

Council Decision

of 14 July 1986

concerning the conclusion of a Community-COST Concertation Agreement between the European Economic Community and the Republic of Finland, the Kingdom of Norway, the Kingdom of Sweden, the Swiss Confederation and the Socialist Federal Republic of Yugoslavia on a concerted action project in the field of plant *in vitro* culture

(COST Project 87)

(86/359/EEC)¹

THE COUNCIL OF THE EUROPEAN COMMUNITIES,

HAVING regard to the Treaty establishing the European Economic Community,

HAVING regard to the draft Decision submitted by the Commission,

WHEREAS by its Decision 85/195/EEC² the Council adopted a multiannual research action programme for the European Economic Community in the field of biotechnology (1985 to 1989) including a concerted action project on plant *in vitro* culture;

WHEREAS Article 7 (1) of Decision 85/195/EEC lays down that the Community may conclude Agreements with non-member States participating in European cooperation in the field of scientific and technical research (COST) with a view to ensuring cooperation between the Community concerted action project on plant *in vitro* culture and the relevant programmes of such States;

WHEREAS Article 7 (2) of the said Decision authorizes the Commission to negotiate the Agreements;

WHEREAS pursuant to the said Article 7 (2) the Commission has negotiated an Agreement with Finland, Norway, Sweden, Switzerland and Yugoslavia;

WHEREAS this Agreement should be approved,

HAS DECIDED AS FOLLOWS:

Article 1

The Community-COST Concertation Agreement between the European Economic Community and the Republic of Finland, the Kingdom of Norway, the Kingdom of Sweden, the Swiss Confederation and the Socialist Federal Republic of Yugoslavia on a concerted action project in the field of plant *in vitro* culture (COST Project 87) is hereby approved on behalf of the Community.

¹ OJ No L 216, 5. 8. 1986.

² OJ No L 83, 25. 3. 1985.

The text of the Agreement is attached hereto.

Article 2

The President of the Council shall give the notification provided for in Article 6 (2) of the Agreement.¹

Done at Brussels, 14 July 1986.

For the Council

The President

M. JOPLING

¹ The date of entry into force of the Agreement will be published in the *Official Journal of the European Communities* by the General Secretariat of the Council.

**Community-COST Concertation Agreement
between the European Economic Community
and the Republic of Finland, the Kingdom of Norway,
the Kingdom of Sweden, the Swiss Confederation
and the Socialist Federal Republic of Yugoslavia
on a concerted action project in the field
of plant *in vitro* culture**

(COST Project 87)

THE EUROPEAN ECONOMIC COMMUNITY,

hereinafter referred to as 'the Community',

**THE REPUBLIC OF FINLAND, THE KINGDOM OF NORWAY, THE KINGDOM
OF SWEDEN, THE SWISS CONFEDERATION AND THE SOCIALIST FEDERAL
REPUBLIC OF YUGOSLAVIA,**

hereinafter referred to as 'the participating non-member States',

WHEREAS a research project in the field of plant *in vitro* culture was proposed in 1980 by the Swiss delegation within the framework of European cooperation in the field of scientific and technical research (COST);

WHEREAS a Memorandum of Understanding for carrying out a European research project on *in vitro* cultures for the purification and propagation of plants (COST Project 87) was signed by Belgium, Denmark, the Federal Republic of Germany, Ireland, and Italy, the Netherlands, Norway, Sweden, Switzerland and the United Kingdom in 1983 and by Spain in 1985;

WHEREAS Section 3 of that Memorandum lays down that it will expire when a Community-Cost Concertation Agreement on *in vitro* cultures for the purification and propagation of plants comes into force;

WHEREAS by its Decision of 12 March 1985 the Council of the European Communities, hereinafter referred to as 'the Council' adopted a multiannual research action programme for the European Economic Community in the field of biotechnology (1985-89) which provides in particular for a concerted action project on plant *in vitro* culture;

WHEREAS the Member States of the Community and the participating non-member States, hereinafter referred to as 'the States', and the Community intend, subject to the rules and procedures applicable to their national programmes, to carry out the research described in Annex A; whereas they prepared to integrate such research into a process of concertation which they consider will be of mutual benefit;

WHEREAS the implementation of the research covered by the concerted action project will require a financial contribution of about 20 million ECU from the States and the Community,

HAS AGREED AS FOLLOWS:

Article 1

The Community and the participating non-member States, hereinafter referred to as 'the Contracting Parties', shall participate for a period extending until 14 June 1988 in a concerted action project in the field of plant *in vitro* culture.

This Project is described in detail in Annex A.

The States remain entirely responsible for the research executed by their national institutions or bodies.

Article 2

Concertation between the Contracting Parties shall be effected through the Management and Coordination Advisory Committee (CGC) in the field of biotechnology set up by the Council Decision of 29 June 1984 dealing with structures and procedures for the management and coordination of Community research, development and demonstration activities, meeting in appropriate configuration and enlarged to include the representatives or experts of the participating non-member States.

The terms of reference and the composition of this enlarged Committee hereinafter referred to as 'the Committee' are defined in accordance with the said Decision.

Article 3

In order to ensure optimum efficiency in the execution of this concerted action project, a Project leader shall be appointed by the Commission after having consulted the national representatives or experts to the Committee.

Article 4

The estimated financial contribution by the Contracting Parties to the coordination costs for the period referred to in the first paragraph of Article 1 shall be:

- (a) 400 000 ECU from the Community;
- (b) 33 000 ECU from each participating non-member State.

The ECU is that defined by the Financial Regulation in force applicable to the general budget of the European Communities and by the financial arrangements adopted pursuant thereto.

The rules governing the financing of the Agreement are set out in Annex B.

Article 5

Through the Committee, the States and the Community shall regularly exchange all useful information concerning the execution of the research covered by the concerted action project. The States shall provide the Commission with all information relevant for coordination purposes. They shall also endeavour to provide the Commission with information on similar research planned or carried out by other bodies which are not under their authority. Any information shall be treated as confidential if so requested by the State which provides it.

Article 6

1. Each of the Contracting Parties shall, after signing this Agreement, notify the Secretary-General of the Council as soon as possible of the completion of the procedures necessary under its internal provisions for the implementation of this Agreement.

2. For the Contracting Parties which have transmitted the notification provided for in paragraph 1, this Agreement shall enter into force on the first day of the month following that in which the Community and at least one of the participating non-member States transmitted these notifications.

For those Contracting Parties which transmit the notification after the entry into force of this Agreement, it shall come into force on the first day of the second month following the month in which the notification was transmitted.

Contracting Parties which have not yet transmitted this notification at the time of entry into force of this Agreement shall be able to take part in the work of the Committee without voting rights for a period of six months following the entry into force of this Agreement.

3. The Secretary-General of the Council shall notify each of the Contracting Parties of the deposit of the notifications provided for in paragraph 1 and of the date of entry into force of this Agreement.

Article 7

This Agreement shall apply, on the one hand, to the territories in which the Treaty establishing the European Economic Community is applied and under the conditions laid down in that Treaty and, on the other hand, to the territories of the participating non-member States.

Article 8

This Agreement, drawn up in a single original in the Danish, Dutch, English, French, German, Greek, Italian, Portuguese and Spanish languages,

each text being equally authentic, shall be deposited in the archives of the General Secretariat of the Council of the European Communities, which shall transmit a certified copy to each of the Contracting Parties.

Done at Brussels on the twenty-fifth day of September in the year one thousand nine hundred and eighty-six.

ANNEX A

Research covered by the concerted action project

The primary aims of this research consist of developing tissue culture methods for:

- (a) rapid multiplication of healthy plants;
- (b) freeing plants from pathogens;
- (c) safe long-term storage of plant cultures.

The model plants selected are:

- (a) apple rootstock M 26;
- (b) cordyline;
- (c) nephrolepis;
- (d) gerbera;
- (e) pelargonium;
- (f) saintpaulia.

ANNEX B

Financing Rules

Article 1

These provisions lay down the financial rules referred to in Article 4 of the Agreement.

Article 2

At the beginning of each financial year, the Commission shall send to each of the participating non-member States a call for funds corresponding to its share of the annual coordination costs under the Agreement, calculated in proportion to the maximum amounts laid down in Article 4 of the Agreement.

This contribution shall be expressed both in ECU and the currency of the participating non-member States concerned, the value of the ECU being defined in the Financial Regulation applicable to the general budget of the European Communities and determined on the date of the call for funds.

The total contributions shall cover the travel costs of the national representatives or experts to the Committee, in addition to the coordination costs proper which include meetings, contracts to be concluded with persons or bodies in the participating States with a view to ensuring coordination and exchange of research workers between laboratories.

Each participating non-member State shall pay its annual contribution to the coordination costs under the Agreement at the beginning of each year, and by 31 March at the latest. Any delay in the payment of the annual contribution shall give rise to the payment of interest by the participating non-member State concerned at a rate equal to the highest discount rate ruling in the States on the due date. The rate shall be increased by 0.25% for each month of delay. The increased rate shall be applied to the entire period of delay. However, such interest shall be chargeable only if payment is effected more than three months after the issue of a call for funds by the Commission.

Article 3

The funds paid by participating non-member States shall be credited to the concerted action project as budget receipts allocated to a heading in the statement of revenue of the general budget of the European Communities (Commission section).

Article 4

The provisional timetable for the coordination costs referred to in Article 4 of the Agreement is appended.

Article 5

The Financial Regulation in force applicable to the general budget of the European Communities shall apply to the management of the appropriations.

Article 6

At the end of each financial year, a statement of appropriations for the concerted action project shall be prepared and transmitted to the participating non-member States for information.

4.

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n = number of participating non-member States.
CA = commitment appropriations.
PA = payment appropriations.

CA = commitment appropriations.

PA = payment appropriations.

**Community-COST Concertation Agreement
between the European Economic Community
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the Kingdom of Sweden, the Swiss Confederation
and the Socialist Federal Republic of Yugoslavia
on a concerted action project in the field
of plant *in vitro* culture**

(COST Project 87)

Decision of Community programmes: 12.5.1985
Date of entry into force of the action: 1.12.1985
Duration: 14.6.1988

Contracting Parties	Date of signing	Date of entry into force
EC	25.9.1986	25.9.1986
Norway	25.9.1986	25.9.1986
Switzerland	25.9.1986	25.9.1986
Finland	25.9.1986	25.9.1986
Sweden	25.9.1986	25.9.1986

**Memorandum of Understanding
for the implementation of a European
research project on the automatic
transmission of data relating to transport**

(COST Project 306)

Memorandum of Understanding for the implementation of a European research project on the automatic transmission of data relating to transport

(COST Project 306)

The Signatories to this Memorandum of Understanding, declaring their common intention to take part in a European research project on the automatic transmission of data relating to transport have reached the following understandings:

Section 1

1. The Signatories intend to cooperate in a project to promote research into the automatic transfer of data relating to transport (hereinafter referred to as the 'Project').

2. The main objective of the Project is to develop computerized techniques for the automatic transmission of data relating to transport operations to replace manual procedures and thus to achieve greater efficiency in the transport system.

3. The Signatories hereby declare their intention of carrying out the Project jointly, in accordance with the technical description given in Annex II, adhering as far as possible to a timetable to be decided by the Management Committee referred to in Annex I.

4. The Project will be carried out through concerted action in accordance with the provisions of Annex I.

5. The overall value of the activities of the Signatories under the Project is estimated at approximately 1 500 000 ECU at 1986 prices.

6. The Signatories will make every effort to ensure that the necessary funds are made available under their internal financing procedures.

Section 2

The Signatories intend to take part in the Project in one or several of the following ways:

(a) by carrying out studies and research in their technical services or public research establishments (hereinafter referred to as 'public research establishments');

(b) by concluding contracts for studies and research with other organizations (hereinafter referred to as 'research contractors');

(c) by contributing to the provision of a Secretariat and/or other coordinating services or activities necessary for the aims of the Project to be achieved;

(d) by making information on existing relevant research, including all necessary basic data, available to other Signatories;

(e) by arranging for inter-laboratory visits and co-operating in a small-scale exchange of staff in the later stages.

Section 3

1. This Memorandum of Understanding will take effect for three years upon signature by at least three Signatories. It may be extended by arrangement between the Signatories.

2. This Memorandum of Understanding may be amended in writing at any time by arrangement between the Signatories.

3. A Signatory which intends, for any reason whatsoever, to terminate its participation in the Project will notify the Secretary-General of the Council of the European Communities of its intention as soon as possible, preferably not later than three months beforehand.

4. If at any time the number of Signatories falls below three, the Management Committee referred to in Annex I will examine the situation which has arisen and consider whether or not this Memorandum of Understanding should be terminated by decision of the Signatories.

Section 4

1. This Memorandum of Understanding will remain open for Signature, by the governments which took part in the Ministerial Conference held in Brussels on 22 and 23 November 1971 and by the European Communities, for a period of six months from the date of the first signature.

The governments referred to in the first subparagraph and the European Communities may take part in the Project on a provisional basis during the abovementioned period even though they may not have signed this Memorandum of Understanding.

2. After this period of six months has elapsed, applications to sign this Memorandum of Understanding from the governments referred to in paragraph 1 or from the European Communities will be decided upon by the Management Committee referred to in Annex I, which may attach special conditions thereto.

3. Any Signatory may designate one or more competent public authorities or bodies to act on its

behalf, in respect of the implementation of the Project.

Section 5

This Memorandum of Understanding is of an exclusively recommendatory nature. It will not create any binding legal effect in international public law.

Section 6

1. The Secretary-General of the Council of the European Communities will inform all Signatories of the dates of the signatures to this Memorandum of Understanding and of the date of its entry into effect, and will forward to them all notices which he has received under this Memorandum of Understanding.

2. This Memorandum of Understanding will be deposited with the General Secretariat of the Council of the European Communities. The Secretary-General will transmit a certified copy to each of the Signatories.

Done at Brussels on the twenty-second day of October in the year one thousand nine hundred and eighty six.

ANNEX I

Coordination of the Project

CHAPTER I

1. A Management Committee (hereinafter referred to as 'the Committee') will be set up, composed of not more than two representatives for each Signatory. Each representative may be accompanied by such experts or advisers as he or she may need.

The governments which took part in the Ministerial Conference held in Brussels on 22 and 23 November 1971 and the European Communities may, in accordance with the second subparagraph of Section 4.1. of the Memorandum of Understanding, participate in the work of the Committee before becoming Signatories to the Memorandum, without, however, having the right to vote.

2. The Committee will be responsible for coordinating the Project and, in particular, for making the necessary arrangements for:

- (a) the choice of research topics on the basis of those provided for in Annex II including any modifications submitted to Signatories by the competent public authorities or bodies; any proposed changes to the Project framework will be referred for an opinion to the COST Technical Committee on Transport;
- (b) advising on the direction which work should take;
- (c) drawing up detailed plans and defining methods for the different phases of execution of the Project;
- (d) coordinating the contributions referred to in subparagraph (c) of Section 2 of the Memorandum of Understanding;
- (e) keeping abreast of the research being done in the territory of the Signatories and in other countries;
- (f) liaising with appropriate international bodies;
- (g) exchanging research results amongst the Signatories to the extent compatible with adequate safeguards for the interests of Signatories, their competent public authorities or bodies and research contractors in respect of industrial property rights and commercially confidential material;
- (h) drawing up the annual interim reports and the final report to be submitted to the Signatories and circulated as appropriate;
- (i) dealing with any problem which may arise out of the execution of the Project, including those relating to possible special conditions to be attached to accession to the Memorandum of Understanding in the case of applications submitted more than six months after the date of the first signature.

3. The Committee will establish its rules of procedure.

4. The Secretariat of the Committee will be provided at the invitation of the Signatories by either the Commission of the European Communities or one of the Signatory States.

CHAPTER II

1. Signatories will invite public research establishments or research contractors in their territories to submit proposals for research work to their respective competent public

authorities or bodies. Proposals accepted under this procedure will be submitted to the Committee.

2. Signatories will request public research establishments or research contractors, before the Committee takes any decision on a proposal, to submit to the public authorities or bodies referred to in paragraph 1 notification of previous commitments and industrial property rights which they consider might preclude or hinder the execution of the projects of the Signatories.

CHAPTER III

1. Signatories will request their public research establishments or research contractors to submit periodical progress reports and a final report.

2. The progress reports will be distributed to the Signatories only through their representatives on the Committee. The Signatories will treat these progress reports as confidential and will not use them for purposes other than research work. The final reports on the results obtained will have much wider circulation, covering at least the Signatories' public research establishments or research contractors concerned.

CHAPTER IV

1. In order to facilitate the exchange of results referred to in Chapter I, paragraph 2(g), and subject to national law, Signatories intend to ensure, through the inclusion of appropriate terms in research contracts, that the owners of industrial property rights and technical information resulting from work carried out in implementation of that part of the Project assigned to them under Annex II (hereinafter referred to as 'the research results') will be under an obligation, if so requested by another Signatory (hereinafter referred to as 'the applicant Signatory'), to supply the research results and to grant to the applicant Signatory or to a third party nominated by the applicant Signatory a licence to use the research result and such technical know-how incorporated therein as is necessary for such use if the applicant Signatory requires the granting of a licence for the execution of work in respect of the Project.

Such licences will be granted on fair and reasonable terms having regard to commercial usage.

2. Signatories will, by including appropriate clauses in contracts placed with research contractors, provide for the licence referred to in paragraph 1 to be extended on fair and reasonable terms, having regard to commercial usage, to previous industrial property rights and to prior technical know-how acquired by the research contractor insofar as the research results could not otherwise be used for the purpose referred to in paragraph 1.

Where a research contractor is unable or unwilling to agree to such extension, the Signatory will submit the case to the Committee, before the contract is concluded; thereafter the Committee will state its position on the case, if possible after having consulted the interested parties.

3. Signatories will take any steps necessary to ensure that the fulfilment of the conditions laid down in this Chapter will not be affected by any subsequent transfer of rights to ownership of the research results. Any such transfer will be notified to the Committee.

4. If a Signatory terminates its participation in the Project, any rights of use which it has granted, or is obliged to grant, to, or has obtained from, other Signatories in application of the Memorandum of Understanding and concerning work carried out up to the date on which the said Signatory terminates its participation will continue thereafter.

5. The provisions of paragraphs 1 to 4 will continue to apply after the period of operation of the Memorandum of Understanding has expired and will apply to industrial property rights as long as these remain valid, and to unprotected inventions and technical know-how until such time as they pass into the public domain other than through disclosure by the licensee.

ANNEX II

General description of the Project

Objectives of the Project

When deciding on the COST 306 Project the COST Transport Committee set the following objectives for the Project.

The general objectives were to research and analyse, considering the different parties involved in the international transport operation, a data interchange concept which enables:

- (a) a more effective use of resources in international transport;
- (b) a faster flow of goods through the whole international transport chain by means of a faster and easier transmission of data between different parties;
- (c) specific requirements on information processing relevant for some mode of transport to be taken into account and to ensure interconnection with parties outside such a system.

The partial objectives were:

- (a) development of computerized techniques instead of the present widely applied manual procedures;
- (b) automation of the transmission of data, i.e. message of transaction instead of the present document-based transmission;
- (c) to enable the processing, storing and transmission of data in advance of the physical transport operation and other connected activities, which will make an effective and continuous control and guiding of transport operations possible;
- (d) development of the information system into an integrated unit which serves all phases in the action of different parties involved in a transport operation thus enabling them to avoid double work and to improve the efficiency.

The expected results of the Project are to:

- (a) simplify, accelerate and maximize the benefits of processing and transmission of data as well as to increase their reliability, which in turn will reduce costs;
- (b) to accelerate all operations in the transport chain and thus reduce transport costs;
- (c) for the user, to decrease the capital investments tied up in goods in transit and to permit a similar decrease in stock levels resulting from improved transport movement;
- (d) to increase the efficiency of the transport system in order to improve the service level.

The COST 306 technical subcommittee achieved its objective and has distributed a demonstration manual. This manual deals with all the relevant factors which have to be considered when moving over to automatic transfer of transport information.

Contents of the manual

The demonstration manual includes:

- (a) data representation to be applied;
- (b) recommendations on technical standards to be used;

- (c) security and liability questions;
- (d) economical and organizational questions when implementing telecommunications.

The COST 306 demonstration manual is one of the first of its kind, dealing with practical solutions that must be adhered to when moving over to automated procedures handling the whole chain of events, from ordering transport to completion of physical transport operation.

All the elements that are needed to start automatic transfer of transport information are available and documented. Participation in the introductory stage of this era will give the parties a considerable advantage over competitors. It will lead to improved economy and secure the flow of information. It will also lead to awareness of the development and even a possibility of influencing the further progress in the area of automated transport procedures.

The demonstration activities

1. Objectives of the demonstration

The objectives for the demonstration activities are the following:

- (a) the development of computerized techniques for transfer of transport information instead of presently applied use of manual procedures;
- (b) the facilitation of methods for processing, storing and transmission of data in advance of the physical transport of goods;
- (c) the development of the information system into an integrated unit which serves all phases of the physical transport operation, thus eliminating double work and improving efficiency.

2. Selecting principles and criteria for participants

The realization of demonstration requires participants in at least two countries, preferably more. The selection of participating undertakings in each country will be done by national demonstration project groups (NDPGs).

The selection principles and criteria for participants are:

- (a) the undertaking has at least one cooperating partner in another country so that they form an unbroken chain of transport activities;
- (b) the undertaking shall agree to acquire equipment, software and know-how which are technically necessary for realization of the demonstration;
- (c) the undertaking shall further agree to carry out the necessary studies before and during the demonstration together with the NDPGs so that the economic and organizational changes appearing during the demonstration phase can be implemented.

NDPGs should select the undertakings which represent as far as possible the following features:

- (a) different sizes;
- (b) different modes of transport;
- (c) different groups of goods;

(d) different capacities in data transmission and data processing.

3. Messages in COST 306

3.1. Messages

The transport functions for the demonstration phase are presented in Chapter 3.1.3 of the demonstration manual. The data messages to be transferred are determined by the transport functions and are also presented in Chapter 3.1.3 of the demonstration manual.

3.2. Opportunities to rationalize production of transport statistics

The technology applied in the demonstration gives opportunities to rationalize production of statistics concerning international transports. This has to be taken into account when preparing the final report on demonstration.

The final report could handle the matter based on the following idea: the authorities in question of different countries should consider future development so that:

- (a) possibilities of the new technology could be utilized in production of statistics concerning international transport;
- (b) in the development work principles should be set down which are as uniform as necessary and are accepted internationally (Unece/Inland Transport Committee, EC and OECD); and
- (c) the collection of statistical data is connected with the transport functions and activities so that there is no need for separate collection system of statistical data.

4. Recommendations and standards to be applied

Recommendations and standards to be applied are presented in the condensed interchange manual which conforms to UNTDI¹ and UNTDED² (see Chapter 3 of the demonstration manual).

5. Solution of data transmission to be recommended and the requirements involved for the equipment of participants

The recommendations of data transmission cover both the external communications solutions and the interface to inhouse systems. (They are described in Chapter 3 of the demonstration manual).

6. Management of demonstration

6.1. Bodies which share the responsibility for the demonstration.

Responsibility for the demonstration project would be shared between the following international and national bodies (see also enclosure A):

- (a) a Management Committee, according to the rules of COST;
- (b) the International Demonstration Project Group (IDPG) headed by the demonstration manager (DM);
- (c) the National Demonstration Project Group (NDPG) with representation from all participating companies and additionally from national trade facilitation bodies.

¹ UNTDI = United Nations Guidelines for Trade Data Interchange.

² UNTDED = United Nations Trade Data Elements Directory.

The ultimate responsibility for what would be done on the different national demonstration sites (in the companies) would continue to rest with the companies, who would have right to terminate their demonstration activity on the permission of the NDPG in question.

6.2. Size of the different bodies and criteria for their members.

- (a) Management Committee according to the rules of COST;
- (b) International Demonstration Project Group (IDPG). The international demonstration project group shall be small in order to be effective. The group would be guided by the demonstration manager and include three to five persons of whom:
 - (i) one shall be data transmission expert,
 - (ii) one TDI expert, and
 - (iii) one transport expert.
- (c) Demonstration manager (DM). The demonstration manager shall have among others:
 - (i) organizational experience,
 - (ii) knowledge at international level, and
 - (iii) other capacity.

6.3. Administrative procedure.

Both the demonstration manager and the members of the IDGP should be approved by the Management Committee.

<i>Demonstration phases and duties</i>	<i>Responsibility</i>
<i>1. Preparation phase (8 months)</i>	
(a) Definition of requirements for equipment and personnel	MC + DM + IDPG IDPG and finally MC
(b) Acquisition of equipment and development of software	Participating companies
(c) Testing of systems	DM and NDPG together with national participating companies
(d) Pre-studies (data management, operation characteristics, resources needed, personnel, etc.)	
(i) guidelines for the studies	DM and IDPG
(ii) implementation of the studies	NDPG and participating companies

Explanatory notes:

MC = Management Committee.

DM = Demonstration manager.

IDPG = International Demonstration Project Group.

NDPG = National Demonstration Project Group.

2. Activity phase (12 months)

- | | |
|---|----------------------------------|
| (a) Keeping up the activities | Participating companies |
| (b) Studies during the demonstration, see 1 (d) above | NDPG and participating companies |
| (c) Supervision | MC |

3. Evaluation phase (16 months)

- | | |
|--|---|
| (a) Final report including conclusions and recommendations regarding demonstration | MC + DM + IDPG
Drawing up: DM (and IDPG and NDPG)

Approval: MC |
| (b) Publicity (before, during and after the demonstration) | (a) At international level MC and IDPG assisted by EC Commission
(b) At national level NDPG. |

Total maximum duration of the project: three years.

Resources requested: About 1.5 million ECU.

**Memorandum of Understanding
for the implementation of a European
research project on the automatic
transmission of data relating to transport**

(COST Project 306)

Date of entry into force of the action: 22.10.1986

Duration: 21.10.1989

Contracting Parties	Date of signing	Date of entry into force
Denmark	11.12.1986	11.12.1986
Germany (FR of)	22.10.1986	22.10.1986
Spain	22.10.1986	22.10.1986
France	22.10.1986	22.10.1986
Netherlands	15.1.1987	15.1.1987
United Kingdom	22.10.1986	22.10.1986
Finland	22.10.1986	22.10.1986

**Memorandum of Understanding
for the implementation of a European research project
on ship maintenance management**

(COST Project 308)

Memorandum of Understanding for the implementation of a European research project on ship maintenance management

(COST Project 308)

The Signatories to this Memorandum of Understanding, declaring their common intention to take part in a European research project on ship maintenance management vehicles have reached the following understandings:

Section 1

1. The Signatories intend to cooperate in a project to promote research into ship maintenance management (hereinafter referred to as the 'Project').

2. The main objective of the Project is to develop a computer based shipboard maintenance system to reduce operating costs, increase the earning capability and assist the design of vessels.

3. The Signatories hereby declare their intention of carrying out the Project jointly, in accordance with the technical description given in Annex II, adhering as far as possible to a timetable to be decided by the Management Committee referred to in Annex I.

4. The Project will be carried out through concerted action in accordance with the provisions of Annex I.

5. The overall value of the activities of the Signatories under the Project is estimated at approximately 1 000 000 ECU at 1986 prices.

6. The Signatories will make every effort to ensure that the necessary funds are made available under their internal financing procedures.

Section 2

The Signatories intend to take part in the Project in one or several of the following ways:

(a) by carrying out studies and research in their technical services or public research establishments (hereinafter referred to as 'public research establishments');

(b) by concluding contracts for studies and research with other organizations (hereinafter referred to as 'research contractors');

(c) by contributing to the provision of a Secretariat and/or other coordinating services or activities necessary for the aims of the Project to be achieved;

(d) by making information on existing relevant research, including all necessary basic data, available to other Signatories;

(e) by arranging for inter-laboratory visits and cooperating in a small-scale exchange of staff in the later stages.

Section 3

1. This Memorandum of Understanding will take effect for three years upon signature by at least three signatories. It may be extended by arrangement between the Signatories.

2. This Memorandum of Understanding may be amended in writing at any time by arrangement between the Signatories.

3. A Signatory which intends, for any reason whatsoever, to terminate its participation in the Project will notify the Secretary-General of the Council of the European Communities of its intention as soon as possible, preferably not later than three months beforehand.

4. If at any time the number of Signatories falls below three, the Management Committee referred to in Annex I will examine the situation which has arisen and consider whether or not this Memorandum of Understanding should be terminated by decision of the Signatories.

Section 4

1. This Memorandum of Understanding will remain open for Signature, by the governments which took part in the Ministerial Conference held in Brussels on 22 and 23 November 1971 and by the European Communities, for a period of six months from the date of the first signature.

The governments referred to in the first subparagraph and the European Communities may take part in the Project on a provisional basis during the abovementioned period even though they may not have signed this Memorandum of Understanding.

2. After this period of six months has elapsed, applications to sign this Memorandum of Understanding from the governments referred to in paragraph 1 or from the European Communities will be decided upon by the Management Committee referred to in Annex I, which may attach special conditions thereto.

3. Any Signatory may designate one or more competent public authorities or bodies to act on its

behalf, in respect of the implementation of the Project.

Section 5

This Memorandum of Understanding is of an exclusively recommendatory nature. It will not create any binding legal effect in international public law.

Section 6

1. The Secretary-General of the Council of the European Communities will inform all Signatories of the dates of the signatures to this Memorandum of Understanding and of the date of its entry into effect, and will forward to them all notices which he has received under this Memorandum of Understanding.

2. This Memorandum of Understanding will be deposited with the General Secretariat of the Council of the European Communities. The Secretary-General will transmit a certified copy to each of the Signatories.

Done at Brussels on the twenty-second day of October in the year one thousand nine hundred and eighty-six.

ANNEX I

Coordination of the Project

CHAPTER I

1. A Management Committee (hereinafter referred to as 'the Committee') will be set up, composed of not more than two representatives for each Signatory. Each representative may be accompanied by such experts or advisers as he or she may need.

The governments which took part in the Ministerial Conference held in Brussels on 22 and 23 November 1971 and the European Communities may, in accordance with the second subparagraph of Section 4.1. of the Memorandum of Understanding, participate in the work of the Committee before becoming Signatories to the Memorandum, without, however, having the right to vote.

2. The Committee will be responsible for coordinating the Project and, in particular, for making the necessary arrangements for:

- (a) the choice of research topics on the basis of those provided for in Annex II including any modifications submitted to Signatories by the competent public authorities or bodies; any proposed changes to the Project framework will be referred for an opinion to the COST Technical Committee on Transport;
- (b) advising on the direction which work should take;
- (c) drawing up detailed plans and defining methods for the different phases of execution of the Project;
- (d) coordinating the contributions referred to in subparagraph (c) of Section 2 of the Memorandum of Understanding;
- (e) keeping abreast of the research being done in the territory of the Signatories and in other countries;
- (f) liaising with appropriate international bodies;
- (g) exchanging research results amongst the Signatories to the extent compatible with adequate safeguards for the interests of Signatories, their competent public authorities or bodies and research contractors in respect of industrial property rights and commercially confidential material;
- (h) drawing up the annual interim reports and the final report to be submitted to the Signatories and circulated as appropriate;
- (i) dealing with any problem which may arise out of the execution of the Project, including those relating to possible special conditions to be attached to accession to the Memorandum of Understanding in the case of applications submitted more than six months after the date of the first signature.

3. The Committee will establish its rules of procedure.

4. The Secretariat of the Committee will be provided at the invitation of the Signatories by either the Commission of the European Communities or one of the Signatory States.

CHAPTER II

1. Signatories will invite public research establishments or research contractors in their territories to submit proposals for research work to their respective competent public

authorities or bodies. Proposals accepted under this procedure will be submitted to the Committee.

2. Signatories will request public research establishments or research contractors, before the Committee takes any decision on a proposal, to submit to the public authorities or bodies referred to in paragraph 1 notification of previous commitments and industrial property rights which they consider might preclude or hinder the execution of the projects of the Signatories.

CHAPTER III

1. Signatories will request their public research establishments or research contractors to submit periodical progress reports and a final report.

2. The progress reports will be distributed to the Signatories only through their representatives on the Committee. The Signatories will treat these progress reports as confidential and will not use them for purposes other than research work. The final reports on the results obtained will have much wider circulation, covering at least the Signatories' public research establishments or research contractors concerned.

CHAPTER IV

1. In order to facilitate the exchange of results referred to in Chapter I, paragraph 2 (g), and subject to national law, Signatories intend to ensure, through the inclusion of appropriate terms in research contracts, that the owners of industrial property rights and technical information resulting from work carried out in implementation of that part of the Project assigned to them under Annex II (hereinafter referred to as 'the research results') will be under an obligation, if so requested by another Signatory (hereinafter referred to as 'the applicant Signatory'), to supply the research results and to grant to the applicant signatory or to a third party nominated by the applicant Signatory a licence to use the research results and such technical know-how incorporated therein as is necessary for such use if the applicant Signatory requires the granting of a licence for the execution of work in respect of the Project.

Such licences will be granted on fair and reasonable terms having regard to commercial usage.

2. Signatories will, by including appropriate clauses in contracts placed with research contractors, provide for the licence referred to in paragraph 1 to be extended on fair and reasonable terms, having regard to commercial usage, to previous industrial property rights and to prior technical know-how acquired by the research contractor insofar as the research results could not otherwise be used for the purpose referred to in paragraph 1.

Where a research contractor is unable or unwilling to agree to such extension, the Signatory will submit the case to the Committee, before the contract is concluded; thereafter the Committee will state its position on the case, if possible after having consulted the interested parties.

3. Signatories will take any steps necessary to ensure that the fulfilment of the conditions laid down in this Chapter will not be affected by any subsequent transfer of rights to ownership of the research results. Any such transfer will be notified to the Committee.

4. If a Signatory terminates its participation in the Project, any rights of use which it has granted, or is obliged to grant, to, or has obtained from, other Signatories in application of the Memorandum of Understanding and concerning work carried out up to the date on which the said Signatory terminates its participation will continue thereafter.

5. The provisions of paragraphs 1 to 4 will continue to apply after the period of operation of the Memorandum of Understanding has expired and will apply to industrial property rights as long as these remain valid, and to unprotected inventions and technical know-how until such time as they pass into the public domain other than through disclosure by the licensee.

ANNEX II

General description of the Project

1. General considerations

The costs for crew, maintenance, repair, spare parts, provisions and bunkers represent a significant part of operating costs and a major consideration in the design of vessels and equipment. The study of maintenance management will address all these areas with the objective of reducing total capital and operational costs. The maintenance requirements and associated agreements are also a potential obstacle to the objective of European ship operators to reduce total crew sizes and operating costs in order to compete more favourably with vessels operated by other advanced nations and under flags of convenience. Any additional costs associated with the reduction of maintenance will have to be recovered through reduced operating costs (including fuel) or higher total earnings.

The running costs (crew, maintenance and repair, stores, lubricating oil etc., insurance and administration) for a European vessel of about panamax size are about 1.7 to 2.5 million ECU per year. The repair and maintenance costs are a significant part of this.

Over the last 20 years the interest in maintenance problems has grown at an increasing rate, with the introduction of planned maintenance followed by condition/performance based maintenance. In recent years, computer based monitoring systems have been developed, particularly for the main machinery. Research is also currently being undertaken by a number of organizations into the possible application of 'expert systems'. Most of the above research has dealt with parts of the problem and so there is a need to develop a systematical analysis of maintenance and associated aspects of the operation of vessels, such as efficient bunker management.

2. Objectives

The objectives of the programme are to provide maintenance data for ships presented to an agreed format, in order to assist the design of vessels and the reduction of operating costs (stores, fuel, and crew) and increase the earning capability of vessels. The proposed second phase of the Project would involve shipboard trials of a computer-based ship board maintenance management system. The results of these trials would be used to draw up recommendations for the future design of such systems.

In undertaking the Project the following points will be kept in mind:

- (a) selection of quantities of data to be measured in order to obtain maintenance and reliability predictions from reasonable amounts of data;
- (b) development of trend analysis for life-time predictions of total systems;
- (c) investigation of the need for improvements to sensors and instruments operating in hostile environments.

3. Phase I programme

The first phase will last for about 18 months and contain the following activities:

- (a) collection of background information (including, where possible, results of research outside Europe);
- (b) collection of existing data;
- (c) review and evaluation of existing maintenance management systems;

- (d) study of time, cost and benefits of maintenance requirements;
- (e) trials for additional data;
- (f) collation and presentation of data;
- (g) separate research projects (e.g. fuel quality); and
- (h) planning for phase II (during last six months).

Data will be collected to an agreed format in the following areas:

A. Top priority

1. Propulsion-diesel engines

- (a) noise,
- (b) cylinder dynamics;
- (c) vibration;
- (d) metal and fluid pollution in the lubricants;
- (e) wear;
- (f) malfunctioning;
- (g) water in the fuel oil;
- (h) ignition and contamination;
- (i) length of use;
- (j) output versus consumption.

2. Hull

- (a) hull surface smoothness;
- (b) fouling;
- (c) checking on structural faults;
- (d) steering gear;
- (e) corrosion of the interior of hull;
- (f) coatings;
- (g) static and dynamic loadings;
- (h) propeller foulings;
- (i) C/P propeller problems.

3. Auxiliaries

- (a) pumps;

- (b) cleaning machines for components and engine rooms;
- (c) performance;
- (d) handling and transport system;
- (e) same parameters for motors as in Area 1;
- (f) length of use.

4. Monitoring equipment

I. Fixed

- (a) electronic equipment and software including sensors;
- (b) reliability of equipment;
- (c) electromagnetic interference;
- (d) communications between different parts of the system;
- (e) diagnostics.

II. Portable

- (a) electronic equipment and software including sensors;
- (b) reliability of equipment;
- (c) electromagnetic interference;
- (d) communication between different parts of the system;
- (e) diagnostics.

B. Second priority

5. Propulsion-shafting systems

- (a) bearing wear and deterioration;
- (b) lubrication;
- (c) seal performances;
- (d) scuffing of gears;
- (e) tail shaft stress;
- (f) tail shaft cooling system;
- (g) tail shaft vibration.

6. Deck & cargo

- (a) measures of performance;
- (b) corrosion;

- (c) heat loss from deck lines;
- (d) cost of leakages;
- (e) coating;
- (f) additional equipment on:
 - (i) products carrier,
 - (ii) bulk carrier,
 - (iii) container, RO/RO.

C. Lowest priority

7. Accommodation

- (a) air conditioning;
- (b) heating;
- (c) refrigeration;
- (d) lighting;
- (e) fire-fighting system;
- (f) cleaning methods;
- (g) materials;
- (h) storage and handling of victuals.

8. Navigation & communications

I. Fixed

- (a) electronic equipment;
- (b) equipment reliability;
- (c) electromagnetic interference;
- (d) communication between system parts;
- (e) diagnostics.

II. Movable

- (a) electronic equipment and software;
- (b) equipment reliability;
- (c) electromagnetic interference;
- (d) communication between system parts;
- (e) diagnostics.

4. Phase II programme

A second phase of the programme will be considered separately following the necessary planning during Phase I. The proposed Phase II could include the design and installation of a computerized maintenance management system or systems on a suitable vessel or vessels. This could include conditions/performance based maintenance and the associated instrumentation, analysis and control; maintenance management including spares control and manpower management; and the transfer of data between ship and shore-based personnel. During the trials experimental equipment would be modified to optimize the system and obtain additional data. The objective of the trials would be to provide data and recommendations for the design of such systems.

5. Resources requested

About 1 million ECU.

**Memorandum of Understanding
for the implementation of a European research project
on ship maintenance management**

(COST Project 308)

Date of entry into force of the action: 22.10.1986

Duration: 21.10.1989

Contracting Parties	Date of signing	Date of entry into force
Denmark	22.10.1986	22.10.1986
Spain	22.10.1986	22.10.1986
France	22.10.1986	22.10.1986
United Kingdom	22.10.1986	22.10.1986

**Memorandum of Understanding
for the implementation of
a European research project
on methods of early detection and identification
of plant diseases**

(COST Project 88)

Memorandum of Understanding for the implementation of a European research project on methods of early detection and identification of plant diseases

(COST Project 88)

The Signatories to this Memorandum of Understanding, declaring their common intention to take part in a European research project on methods of early detection and identification of plant diseases have reached the following understanding:

Section 1

1. The Signatories intend to cooperate in a project to promote research into the field of early detection and identification of plant diseases in Europe.

2. The main objective of the Project is to coordinate research on the early detection and identification of plant diseases in Europe, in particular in the following fields:

- (a) molecular hybridization techniques;
- (b) advanced immunochemical techniques;
- (c) defining standards for the development of these techniques and diagnosis;
- (d) setting up a European Bank for standards for the diagnosis of plant diseases.

3. The Signatories hereby declare their intention of carrying out the Project jointly, in accordance with the general description given in Annex II, adhering as far as possible to a timetable to be decided by the Management Committee referred to in Annex I.

4. The Project will be carried out through concerted action, in accordance with the provisions of Annex I.

5. The overall value of the activities of the Signatories under the Project is estimated at approximately 25 million ECU overall at 1986 prices.

6. The Signatories will make every effort to ensure that the necessary funds are made available under their internal financing procedures.

Section 2

Signatories intend to take part in the Project in one or several of the following ways:

- (a) by carrying out studies and research in their technical services or public research establishments (hereinafter referred to as 'public research establishments');
- (b) by concluding contracts for studies and research with organizations (hereinafter referred to as 'research contractors');
- (c) by contributing to the provision of a Secretariat and/or other coordinatory services or activities necessary for the aims of the Project to be achieved;
- (d) by making information on existing relevant research, including all necessary basic data, available to other Signatories;
- (e) by arranging for inter-laboratory visits and by cooperating in a small-scale exchange of staff in the later stages.

Section 3

1. This Memorandum of Understanding will take effect for five years on its signing by at least four Signatories.

2. This Memorandum of Understanding may be amended in writing at any time by arrangement between the Signatories.

3. A Signatory which intends, for any reason whatsoever, to terminate its participation in the Project will notify the Secretary-General of the Council of the European Communities of its intention as soon as possible, preferably not later than three months beforehand.

4. If at any time the number of Signatories falls below four, the Management Committee referred to in Annex I will examine the situation which has arisen and will consider whether or not this Memorandum of Understanding should be terminated by decision of the Signatories.

Section 4

1. This Memorandum of Understanding will, for a period of six months from the date of the first signing, remain open for signing, by the governments which took part in the Ministerial Conference held in Brussels on 22 and 23 November 1971 and also by the European Communities.

The governments referred to in the first subparagraph, and the European Communities may take part in the Project on a provisional basis during the abovementioned period, even though they may not have signed this Memorandum of Understanding.

2. After this period of six months has elapsed, applications to sign this Memorandum of Understanding from the governments referred to in paragraph 1 or from the European Communities will be decided upon by the Management Committee referred to in Annex I, which may attach special conditions thereto.

3. Any Signatory may designate one or more competent public authorities or bodies to act on its behalf in respect of the implementation of the Project.

Section 5

This Memorandum of Understanding is of an exclusively recommendatory nature. It will not create any binding legal effect in public international law.

Section 6

1. The Secretary-General of the Council of the European Communities will inform all Signatories of the signing dates and date of entry into effect of this Memorandum of Understanding and will forward to them all notices which he has received under this Memorandum of Understanding.

2. This Memorandum of Understanding will be deposited with the General Secretariat of the Council of the European Communities. The Secretary-General will transmit a certified copy to each of the Signatories.

Done at Brussels on the twenty-seventh day of November in the year one thousand nine hundred and eighty-six.

ANNEX I

Coordination of the Project

CHAPTER I

1. A Management Committee (hereinafter referred to as 'the Committee') will be set up, composed of not more than two representatives for each Signatory. Each representative may be accompanied by such experts or advisers as he or she may need.

The governments which took part in the Ministerial Conference held in Brussels on 22 and 23 November 1971 and the European Communities may, in accordance with the second subparagraph of Section 4 (1) of the Memorandum of Understanding, participate in the work of the Committee before becoming Signatories to the Memorandum without, however, having the right to vote.

When the European Communities are not a Signatory to the Memorandum of Understanding, a representative of the Commission of the European Communities may attend Committee meetings as an observer.

2. The Committee will be responsible for coordinating the Project and in particular for making the necessary arrangements for:

- (a) the choice of research topics on the basis of those provided for in Annex II, including any modifications submitted to Signatories by the competent public authorities or bodies; any proposed changes to the Project framework will be referred for an opinion to the Committee of Senior Officials on Scientific and Technical Research (COST);
- (b) advising on the direction which work should take;
- (c) drawing up detailed plans and defining methods for the different phases of execution of the Project;
- (d) coordinating the contributions referred to in subparagraph (c) of Section 2 of the Memorandum of Understanding;
- (e) keeping abreast of the research being done in the territory of the Signatories and in other countries;
- (f) liaising with appropriate international bodies;
- (g) exchanging research results among the Signatories to the extent compatible with adequate safeguards for the interests of Signatories, their competent public authorities or bodies and research contractors in respect of industrial property rights and commercially confidential material;
- (h) drawing up the annual interim reports and the final report to be submitted to the Signatories and circulated as appropriate;
- (i) dealing with any problem which may arise out of the execution of the Project, including those relating to possible special conditions attached to accession to the Memorandum of Understanding in the case of applications submitted more than six months after the date of the first signing.

3. The Committee will establish its rules of procedure.

4. The Secretariat of the Committee will be provided at the invitation of the Signatories by either the Commission of the European Communities or one of the Signatory States.

CHAPTER II

1. Signatories will invite public research establishments or research contractors in their territories to submit proposals for research work to their respective competent public authorities or bodies. Proposals accepted under this procedure will be submitted to the Committee.
2. Signatories will request public research contractors, before the Committee takes any decision on a proposal, to submit to the public authorities or bodies referred to in paragraph 1 notification of previous commitments and industrial property rights which they consider might preclude or hinder the execution of the projects of the Signatories.

CHAPTER III

1. Signatories will request their public research establishments or research contractors to submit periodical progress reports and a final report.
2. The progress reports will be distributed to the Signatories only, through their representatives on the Committee. The Signatories will treat these progress reports as confidential and will not use them for purposes other than research work. The final reports on the results obtained will have much wider circulation, covering at least the Signatories' public research establishments or research contractors concerned.

CHAPTER IV

1. In order to facilitate the exchange of results referred to in Chapter I, paragraph 2 (g), and subject to national law, Signatories intend to ensure, through the inclusion of appropriate terms in research contracts, that the owners of industrial property rights and technical information resulting from work carried out in implementation of that part of the Project assigned to them under Annex II (hereinafter referred to as 'the research results') will be under an obligation, if so requested by another Signatory (hereinafter referred to as 'the applicant Signatory'), to supply the research results and to grant to the applicant Signatory or to a third party nominated by the applicant Signatory a licence to use the research results and such technical know-how incorporated therein as is necessary for such use if the applicant Signatory requires the granting of a licence for the execution of:

- (a) work in respect of the Project;
- (b) research and development work within the framework of the applicant Signatory's projects in the same field;
- (c) research and development work within the framework of any associated European project undertaken subsequently and in which all or several of the Signatories may be prepared to take part.

Such licences will be granted on fair and reasonable terms, having regard to commercial usage.

2. Signatories will, by including appropriate clauses in contracts placed with research contractors, provide for the licence referred to in paragraph 1 to be extended on fair and reasonable terms, having regard to commercial usage, to previous industrial property rights and to prior technical know-how acquired by the research contractor insofar as the research results could not otherwise be used for the purpose referred to in paragraph 1.

Where a research contractor is unable or unwilling to agree to such extension, the Signatory will submit the case to the Committee, before the contract is concluded; hereafter, the Committee will state its position on the case, if possible after having consulted the interested parties.

3. Signatories will take any steps necessary to ensure that the fulfilment of the conditions laid down in the present Chapter will not be affected by any subsequent transfer of rights to ownership of the research results. Any such transfer will be notified to the Committee.
4. If a Signatory terminates its participation in the Project, any rights of use which it has granted, or is obliged to grant, to, or has obtained from, other Signatories in application of the Memorandum of Understanding and concerning work carried out up to the date on which the said Signatory terminates its participation will continue thereafter.
5. The provisions of paragraphs 1 to 4 will continue to apply after the period of operation of the Memorandum of Understanding has expired and will apply to industrial property rights as long as these remain valid, and to unprotected inventions and technical know-how until such time as they pass into the public domain other than through disclosure by the licensee.

General description of the Project

I. Objectives

Considering the present state of knowledge and the most likely evolution in the field of early detection and identification of plant diseases in Europe the new COST Project should coordinate research with the following objectives:

- (a) development and application of molecular hybridization techniques;
- (b) development and application of hybridoma and other advanced immunochemical techniques;
- (c) defining standards useful for the development of these techniques and for the application of the diagnostic methods;
- (d) initiation of the basis for setting up a European Bank for standards required for the early detection and identification of plant diseases, if such an institution is not meanwhile created by an other international cooperation project.

II. Project procedures

The proposed objectives are to be achieved over a period of five years by:

- (a) forming a committee composed of a delegate of each cooperating country. The delegates should be actively involved in the proposed research;
- (b) organization of regular meetings with work reports and demonstration;
- (c) exchange of reference material and methods;
- (d) exchange of qualified researchers for short-term training;
- (e) exchange of results;
- (f) formation of small working parties for special topics.

According to the evolution of the Project, new procedures should be defined by the committee.

III. Financing

Financing shall be provided by the national programmes of each member country — according to classification of the Project.

IV. Interaction of early detection and identification of plant diseases with other programmes supported by the European Economic Community

The present Project has links to the following programmes:

- (a) *in vitro* culture of plants (COST 87, Category 2);
- (b) research project programme in biotechnology (BAP).

Countries using or presently developing immunochemical diagnosis techniques (according to the reports)

	B	DK	SF	D	E	IRL	S	NL	UK	F	CH
Viruses	B	DK	SF	D	E	IRL	S	NL	UK	F	CH
Beet	B	DK		D	E			NL	UK	F	CH
Cereal	B	DK		D			S	NL	UK	F	CH
Flower	B	DK		D				NL	UK	F	
Forest tree				D		IRL		NL	UK		
Fodder crop	B	DK						NL	UK		CH
Fruit tree	B	DK	SF	D	E		S	NL	UK	F	CH
Grapevine				D	E					F	CH
Hop	B			D					UK	F	
Potato	B	DK	SF	D	E	IRL	S	NL	UK	F	CH
Small fruit			SF					NL	UK		
Vegetable	B	DK		D	E		S	NL	UK	F	CH
Ornamental plants				D		IRL		NL	UK	F	CH
Mycoplasma					E				UK	F	
cytric tree					E						
fruit tree					E						
Bacteria (spp. of)	B	DK	SF	D	E	IRL	S	NL	UK	F	CH
Erwinia	B	DK		D	E			NL	UK	F	CH
Corynebact.	B	DK	SF	D	E	IRL		NL	UK	F	
Xanthomonas		DK			E			NL	UK	F	
Pseudomonas		DK			E			NL			
Agrobacterium					E						
Fungi (spp. of)				D	E				UK	F	
Botritis					E						
Verticillium				D	E						
Phoma				D	E				UK	F	
Fusarium					E						
Sclerotium											
Pythium					E						
Phytophthora				D	E					F	
Cladosporium					E						
Venturia											
Podosphaera											
Rhizoctonia											
Polymyxa	B										
Forest fungi						IRL					
Pyrenochaeta									UK		
Chondrostereum											
Nectria										F	
Cercospora				D							

**Memorandum of Understanding
for the implementation of
a European research project
on methods of early detection and identification of plant diseases**

(COST Project 88)

Date of entry into force of the action: 27.11.1986

Duration: 26.11.1991

Contracting Parties	Date of signing	Date of entry into force
Denmark	27.11.1986	27.11.1986
Germany (FR of)	27.11.1986	27.11.1986
France	27.11.1986	27.11.1986
Netherlands	27.11.1986	27.11.1986
United Kingdom	27.11.1986	27.11.1986
Switzerland	27.11.1986	27.11.1986
Finland	27.11.1986	27.11.1986
Sweden	27.11.1986	27.11.1986
Turkey	27.11.1986	27.11.1986

**Memorandum of Understanding
for the implementation of a European research project
to support industrial applications of light alloys**

(COST Project 506)

Memorandum of Understanding for the implementation of a European research project to support industrial applications of light alloys

(COST Project 506)

The Signatories to this Memorandum of Understanding, declaring their common intention to take part in a European research project to support industrial applications of light alloys have reached the following understandings:

Section 1

1. The Signatories intend to cooperate in a project (hereinafter referred to as the 'Project') to promote research, in particular, into light alloys:

- (a) aluminium-base alloy;
- (b) titanium-base alloy;
- (c) magnesium-base alloy;
- (d) light metal matrix composites.

2. The main aim of the Project is to establish within Europe concerted R&D activities as needed in support of the application of light alloys in a wide range of industries, e.g.:

- (a) mass transport systems (aeronautic, railways, street cars, buses, cable-cars, ski-lifts, ships etc.);
- (b) individual transport systems (cars, trucks, etc.); and
- (c) leisure equipment (bicycles, motorcycles, snowmobiles, glider planes, ultra-light flying systems, boats and other sports equipment).

3. To attain that aim, it is imperative that the relatively high raw material costs associated with such alloys are compensated by taking full advantage of more economic fabrication techniques.

4. The Signatories hereby declare their intention of carrying out the Project jointly, in accordance with the general description given in Annex II, adhering as far as possible to a timetable to be decided by the Management Committee referred to in Annex I.

5. The Project will be carried out through concerted action, in accordance with the provisions of Annex I.

6. The overall value of the activities of the Signatories under the Project is estimated at approximately 7.5 million ECU at 1986 prices.

7. The Signatories will make every effort to ensure that the necessary funds are made available under their internal financing procedures.

Section 2

1. Signatories intend to take part in the Project in one or several of the following ways:

- (a) by carrying out studies and research in their technical services or public research establishments (hereinafter referred to as 'public research establishments');
- (b) by concluding contracts for studies and research with organizations (hereinafter referred to as 'research contractors');
- (c) by providing the Secretariat, including facilities and expertise required, and other coordinatory services or activities necessary for the aims of the Project to be achieved.

2. In order to ensure an efficient management of the Project, in particular with regard to the appreciation of research proposals, the coordination of work, the evaluation of results and the drawing up of the final report, the Signatories intend to place the necessary experts for a limited time at the disposal of the Management Committee referred to in Annex I.

3. The Signatories intend to promote inter-laboratory visits.

Section 3

1. This Memorandum of Understanding will take effect for four years upon signature by at least five Signatories. It may be terminated upon the entry into force of a Community-COST Concertation Agreement in the same field as that covered by this Memorandum of Understanding.

2. This Memorandum of Understanding may be amended in writing at any time by arrangement between the Signatories.

3. A Signatory which intends for any reason whatsoever to terminate its participation in the Project will notify the Secretary-General of the Council of the European Communities of its intention as soon as possible, preferably not later than three months beforehand.

4. If at any time the number of Signatories falls below five, the Management Committee referred to in Annex I will examine the situation which has arisen and will consider whether or not this Memorandum of Understanding should be terminated by decision of the Signatories.

Section 4

1. This Memorandum of Understanding will, for a period of six months from the date of the first signing, remain open for signing by the governments which took part in the Ministerial Conference held in Brussels on 22 and 23 November 1971 and by the European Communities.

The governments referred to in the first subparagraph and the European Communities may take part in the Project on a provisional basis during the abovementioned period even though they may not have signed this Memorandum of Understanding.

2. After this period of six months has elapsed, applications to sign this Memorandum of Understanding from the governments referred to in paragraph 1 or from the European Communities will be decided upon by the Management Committee referred to in Annex I, which may attach special conditions thereto.

3. Any Signatory may designate one or more competent public authorities or bodies to act on its behalf, in respect of the implementation of the Project.

Section 5

This Memorandum of Understanding is of an exclusively recommendatory nature. It will not create any binding legal effect in public international law.

Section 6

1. The Secretary-General of the Council of the European Communities will inform all Signatories of the signing dates and of the date of entry into effect of this Memorandum of Understanding and will forward to them all notices which he has received under this Memorandum of Understanding.

2. This Memorandum of Understanding will be deposited with the General Secretariat of the Council of the European Communities. The Secretary-General will forward a certified copy to each of the Signatories.

Done at Brussels on the tenth day of December in the year one thousand nine hundred and eighty-six.

ANNEX I

Coordination of the Project

CHAPTER I

1. A Management Committee (hereinafter referred to as 'the Committee') will be set up, composed of not more than two representatives for each Signatory. Each representative may be accompanied by such experts or advisers as he or she may need.

The governments which took part in the Ministerial Conference held in Brussels on 22 and 23 November 1971 and the European Communities may, in accordance with the second subparagraph of Section 4, point 1, of the Memorandum of Understanding, participate in the work of the Committee before becoming Signatories to the Memorandum without, however, having the right to vote.

2. The Committee will be responsible for coordinating the Project and in particular for making the necessary arrangements for:

- (a) the choice of research topics on the basis of those provided for in Annex II, including any modifications submitted to Signatories by the competent public authorities or bodies; any proposed changes to the Project framework will be referred for an opinion to the Committee of Senior Officials on Scientific and Technical Research (COST);
- (b) examining, selecting and adopting, on the basis of industrial priorities, research proposals made under the Project, while ensuring that each project forms the subject of collaboration between participants from two or more Signatories;
- (c) advising on the direction which work should take;
- (d) drawing up detailed plans and defining methods for the different phases of execution of the Project;
- (e) coordinating the contributions referred to in point 1(c) of Section 2 of the Memorandum of Understanding;
- (f) choosing, in liaison with the Signatories concerned, the experts referred to in Section 2, point 2, of the Memorandum of Understanding, and for giving them instructions;
- (g) keeping abreast of the research being done in the territory of the Signatories and in other countries;
- (h) assuring the necessary coordination with the activities in the same field;
- (i) exchanging research results among the Signatories to the extent compatible with adequate safeguards for the interests of Signatories, their competent public authorities or bodies and research contractors in respect of industrial property rights and commercially confidential material;
- (j) promoting and organizing conferences in the field of the Project;
- (k) drawing up the annual interim reports and the final report to be submitted to the Signatories and circulated as appropriate;
- (l) dealing with any problem which may arise out of the execution of the Project, including those relating to possible special conditions to be attached to accession to the Memorandum of Understanding in the case of applications submitted more than six months after the date of the first signing.

3. The Committee will establish its rules of procedure.

4. The Secretariat of the Committee will be provided at the invitation of the Signatories by either the Commission of the European Communities or one of the Signatory States.

CHAPTER II

1. Signatories will invite public research establishments or research contractors in their territories to submit proposals for research work to their respective competent public authorities or bodies. Proposals accepted under this procedure will be submitted to the Committee.
2. Signatories will request public research establishments or research contractors, before the Committee takes any decision on a proposal, to submit to the public authorities or bodies referred to in paragraph 1 notification of previous commitments and industrial property rights which they consider might preclude or hinder the execution of the projects of the Signatories.

CHAPTER III

1. Signatories will require their public research establishments or research contractors to submit periodical progress reports and a final report.
2. Distribution of progress reports will be restricted to the representatives of the Signatories within the Committee. The Signatories will treat these progress reports as confidential and will not use them for purposes other than research work. The final reports on the results obtained will have much wider circulation, covering at least the Signatories' public research establishments or research contractors concerned.

CHAPTER IV

1. In order to facilitate the exchange of results referred to in Chapter I, paragraph 2(i), and subject to national law, Signatories intend to ensure, through the inclusion of appropriate terms in research contracts, that the owners of industrial property rights and technical information resulting from work carried out in implementation of that part of the Project assigned to them under Annex II (hereinafter referred to as 'the research results') will be under an obligation, if so requested by another Signatory (hereinafter referred to as 'the applicant Signatory'), to supply the research results and to grant to the applicant Signatory or to a third party nominated by the applicant Signatory a licence to use the research results and such technical know-how incorporated therein as is necessary for such use if the applicant Signatory requires the granting of a licence for the execution of work in respect of the Project.

Such licences will be granted on fair and reasonable terms, having regard to commercial usage.

2. Signatories will, by including appropriate clauses in contracts placed with research contractors, provide for the licence referred to in paragraph 1 to be extended on fair and reasonable terms, having regard to commercial usage, to previous industrial property rights and to prior technical know-how acquired by the research contractor insofar as the research results could not otherwise be used for the purpose referred to in paragraph 1.

Where a research contractor is unable or unwilling to agree to such extension, the Signatory will submit the case to the Committee before the contract is concluded; hereafter, the Committee will state its position on the case, if possible after having consulted the interested parties.

3. Signatories will take any steps necessary to ensure that the fulfilment of the obligations laid down in this Chapter will not be affected by any subsequent transfer of rights to ownership of the research results. Any such transfer will be notified to the Commission.
4. If a Signatory terminates its participation in the Project, any rights of use which it has granted, or is obliged to grant to, or has obtained from, other Signatories in application of

the Memorandum of Understanding and concerning work carried out up to the date on which the said Signatory terminates its participation will continue thereafter.

5. The provisions of paragraphs 1 to 4 will continue to apply after the period of operation of the Memorandum of Understanding has expired and will apply to industrial property rights as long as these remain valid and to unprotected inventions and technical know-how until such time as they pass into the public domain other than through disclosure by the licensee.

ANNEX II

TECHNICAL ANNEX

Proposal for a new COST research project to support industrial applications of light alloys

A 1. Introduction

Europe is an area with much need for public and individual transport with major production capacities for transport systems. A common effort should be made to ensure that Europe can develop and produce advanced transport systems taking into account the stringent demands of economics, environment, resources, etc. One important prerequisite for such advanced systems is the availability of suitable construction materials, in particular low-density materials to permit weight-saving construction principles. Substantial progress in advanced low-density high-performance alloy systems has resulted from stimulating demands by the aeronautical, space and defence industries which are supported by governments to a much higher degree in the USA and Japan than in Europe. Research and development projects within Europe comparable with those outside are needed to keep the European transport industry in a competitive position. Integration of the transport industry at an early stage of alloy development is crucial. A dialogue between the transport industry, materials producers and parts manufacturers developed in some countries at a national level, should be established on a large scale within the European countries.

A 2. Technical areas requiring specific research and development efforts

Joint research and development activities should be planned in the following areas:

- (a) improvements in economy and optimization of materials processing:
 - (i) casting technologies (including rapid solidification, precision casting, and squeeze casting techniques),
 - (ii) processing in solid state, modelling and control,
 - (iii) thermomechanical treatments,
 - (iv) surface treatments (including coating and cladding procedures),
 - (v) recycling of scrap;
- (b) improvements in the economy of fabrication and application:
 - (i) machining techniques (mechanical, chemical, electrochemical),
 - (ii) near-net-shape fabrication methods,
 - (iii) superplastic and other low-energy forming techniques,
 - (iv) assembling and joining techniques (welding, brazing, diffusion bonding, adhesive bonding techniques, spot welding),
 - (v) material aspects of noise and vibration prevention;

(c) evaluation and characterization of most promising candidate materials:

- (i) determination of specific mechanical (static and dynamic) properties under specific loading conditions (fatigue, etc.),
- (ii) determination of effects of microstructure and environment (including temperature) on mechanical, both static and dynamic, (corrosion fatigue, stress corrosion), chemical (corrosion resistance, stress assisted corrosion, surface deterioration), and physical (reflectivity, conductivity) properties,
- (iii) standardization of test procedures and methods for presentation of materials data, development of improved test procedures,
- (iv) determination of specific technological properties under service conditions (wear, cavitation, damping properties),
- (v) establishing methods for assessing economic performance of different materials,
- (vi) establishing guidelines for design and application of light alloys (e.g. design codes for welded structures)
- (vii) guidelines for materials selection.

Attempts should be made to communicate in these areas also with national and international standardization and licensing organizations.

**Memorandum of Understanding
for the implementation of a European research project
to support industrial applications of light alloys**

(COST Project 506)

Date of entry into force of the action: 10.12.1986

Duration: 9.12.1990

Contracting Parties	Date of signing	Date of entry into force
Spain	10.12.1986	10.12.1986
Netherlands	10.12.1986	10.12.1986
Austria	10.12.1986	10.12.1986
Switzerland	10.12.1986	10.12.1986
Finland	10.12.1986	10.12.1986

**Community-COST Concertation Agreement
on a concertation action project in the field of
aquatic primary biomass (marine macroalgae)**

(COST Project 48)

Council Decision
of 14 July 1986
concerning the conclusion of a Community-COST Concertation
Agreement on a concerted action project
in the field of aquatic primary biomass (marine macroalgae)
(COST Project 48)
(86/358/EEC)¹

THE COUNCIL OF THE EUROPEAN COMMUNITIES,

HAVING regard to the Treaty establishing the European Economic Community,

HAVING regard to the draft Decision submitted by the Commission,

WHEREAS by its Decision 85/195/EEC² the Council adopted a multiannual research action programme for the European Economic Community in the field of biotechnology (1985 to 1989) including a concerted action project on aquatic primary biomass (marine macroalgae);

WHEREAS Article 7 (1) of Decision 85/195/EEC lays down that the Community may conclude Agreements with non-member States participating in European cooperation in the field of scientific and technical research (COST) with a view to ensuring cooperation between the Community concerted action project on aquatic primary biomass (marine macroalgae) and the relevant programmes of such States;

WHEREAS Article 7 (2) of the said Decision authorizes the Commission to negotiate the said Agreements;

WHEREAS pursuant to the said Article 7 (2) the Commission has completed these negotiations;

WHEREAS this Agreement should be approved,

HAS DECIDED AS FOLLOWS:

Article 1

The Community-COST Concertation Agreement on a concerted action project in the field of aquatic primary biomass (marine macroalgae) (COST Project 48) is hereby approved on behalf of the Community.

The text of the Agreement is attached hereto.

¹ OJ No L 216, 5. 8. 1986.

² OJ No L 83, 25. 3. 1985.

Article 2

The President of the Council shall give the notification provided for in Article 6 (2) of the Agreement.¹

Done at Brussels, 14 July 1986.

For the Council

The President

M. JOPLING

¹ The date of entry into force of the Agreement will be published in the *Official Journal of the European Communities* by the General Secretariat of the Council.

Community-COST Concertation Agreement on a concerted action project in the field of aquatic primary biomass (marine macroalgae)

(COST Project 48)

THE EUROPEAN ECONOMIC COMMUNITY,

hereinafter referred to as 'the Community', and

THE SIGNATORY STATES TO THIS AGREEMENT,

hereinafter referred to as 'the participating non-member States',

WHEREAS a research project in the field of aquatic biomass was proposed in 1980 by the Norwegian delegation within the framework of European cooperation in the field of scientific and technical research (COST);

WHEREAS by its Decision of 12 March 1985 the Council of the European Communities, hereinafter referred to as 'the Council', adopted a multiannual research action programme for the European Economic Community in the field of biotechnology (1985 to 1989) which includes a concerted action project on aquatic primary biomass (marine macroalgae);

WHEREAS the Member States of the Community and the participating non-member States, hereinafter referred to as 'the States', and the Community intend, subject to the rules and procedures applicable to their national programmes, to carry out the research described in Annex A; whereas they are prepared to integrate such research into a process of concertation which they consider will be of mutual benefit;

WHEREAS the implementation of the research covered by the concerted action project will require a financial contribution of about 30 million ECU from the States and the Community,

HAVE AGREED AS FOLLOWS:

Article 1

The Community and the participating non-member States, hereinafter referred to as 'the Contracting Parties', shall participate for a period extending until 31 December 1989 in a concerted action project in the field of aquatic primary biomass (marine macroalgae).

The Project is described in detail in Annex A.

The States remain entirely responsible for the research executed by their national institutions or bodies.

Article 2

Cooperation between the Contracting Parties shall be effected through the Management and Coordination Advisory Committee (CGC) in the field of biotechnology, set up by the Council Decision of 29 June 1984 dealing with structures and procedures for the management and coordination of Community research, development and demonstration activities, meeting in appropriate configuration and enlarged to include representatives or experts of the participating non-member States.

The terms of reference and the composition of this enlarged Committee, hereinafter referred to as 'the Committee', are defined in accordance with the said Decision.

Article 3

In order to ensure optimum efficiency in the execution of this concerted action project, a Project leader shall be appointed by the Commission after having consulted the national representatives or experts to the Committee.

Article 4

The estimated financial contribution by the Contracting Parties to the coordination costs for the period referred to in the first paragraph of Article 1 shall be:

- (a) 750 000 ECU from the Community;
- (b) 62 000 ECU from each participating non-member State.

The ECU is that defined by the Financial Regulation in force applicable to the general budget of the European Communities and by the financial arrangements adopted pursuant thereto.

The rules governing the financing of the agreement are set out in Annex B.

Article 5

Through the Committee, the States and the Community shall regularly exchange all useful information concerning the execution of the research covered by the concerted action project. The States shall provide the Commission with all information relevant for coordination purposes. They shall also endeavour to provide the Commission with information on similar research planned or carried out by other bodies which are not under their authority. Any information shall be treated as confidential if so requested by the State which provides it.

Article 6

1. This Agreement shall be open for signature by the Community and by the non-member States

which took part in the Ministerial Conference held in Brussels on 22 and 23 November 1971.

2. As a condition precedent to its participation in the concerted action project defined in Article 1, each of the Contracting Parties shall, after signing this Agreement, have notified the Secretary-General of the Council not later than 1 March 1987 of the completion of the procedures necessary under its internal provisions for the implementation of this Agreement.

3. For the Contracting Parties which transmit the notification provided for in paragraph 2, this Agreement shall come into force on the first day of the month following that in which the Community and at least one of the participating non-member States transmitted these notifications.

For those Contracting Parties which transmit the notification after the entry into force of this Agreement, it shall come into force on the first day of the second month following the month in which the notification was transmitted.

Contracting Parties which have not transmitted this notification when this Agreement comes into force shall be able to take part in the work of the Committee without voting rights until 1 March 1987.

Article 7

This Agreement shall apply, on the one hand, to the territories in which the Treaty establishing the European Economic Community is applied and under the conditions laid down in that Treaty and, on the other hand, to the territories of the participating non-member States.

Article 8

This Agreement, drawn up in a single original in the Danish, Dutch, English, French, German, Greek, Italian, Portuguese and Spanish languages, each text being equally authentic, shall be deposited in the archives of the General Secretariat of the Council of the European Communities, which shall transmit a certified copy to each of the Contracting Parties.

Research covered by the concerted action project

1. Examination of primary production and harvesting techniques for the optimization of biomass production from natural populations of marine plants.
2. Development of methods for intensive cultivation and genetic improvement of species of marine algae in attached and unattached forms in various cultivation systems.
3. Studies of the uptake of nutrients by marine algae in various cultivation systems and the use of waste waters for this purpose.
4. Examination of a wide range of marine algae for new fine chemicals and biochemicals for direct use or as precursors for chemical and pharmaceutical applications.
5. Toxicity testing of marine plants destined for human or animal consumption; environmental impact studies.
6. Studies of conversion of marine plants for the production of energy (e.g. fermentation to methane, thermochemical processes) or chemical compounds.

ANNEX B

Financing Rules

Article 1

These provisions lay down the financial rules referred to in Article 4 of the Agreement.

Article 2

At the beginning of each financial year, the Commission shall send to each of the participating non-member States a call for funds corresponding to its share of the annual coordination costs under the Agreement, calculated in proportion to the maximum amounts laid down in Article 4 of the Agreement.

This contribution shall be expressed both in ECU and the currency of the participating non-member State concerned, the value of the ECU being defined in the Financial Regulation applicable to the general budget of the European Communities and determined on the date of the call for funds.

The total contributions shall cover the travel costs of the national representatives or experts to the Committee, in addition to the coordination costs proper which include meetings, contracts to be concluded with persons or bodies in the participating States with a view to ensuring coordination and exchange of research workers between laboratories.

Each participating non-member State shall pay its annual contribution to the coordination costs under the Agreement at the beginning of each year, and by 31 March at the latest. Any delay in the payment of the annual contribution shall give rise to the payment of interest by the participating non-member State concerned at a rate equal to the highest discount rate ruling in the States on the due date. The rate shall be increased by 0.25% for each month of delay. The increased rate shall be applied to the entire period of delay. However, such interest shall be chargeable only if payment is effected more than three months after the issue of a call for funds by the Commission.

Article 3

The funds paid by participating non-member States shall be credited to the concerted action project as budget receipts allocated to a heading in the statement of revenue of the general budget of the European Communities (Commission section).

Article 4

The provisional timetable for the coordination costs referred to in Article 4 of the Agreement is appended hereto.

Article 5

The Financial Regulation in force applicable to the general budget of the European Communities shall apply to the management of the appropriations.

Article 6

At the end of each financial year, a statement of appropriations for the concerted action project shall be prepared and transmitted to the participating non-member States for information.

APPENDIX

Provisional timetable for the coordination costs

x 1 000 ECU

	1985		1986		1987		1988		1989		Total	
	CA	PA	CA	PA	CA	PA	CA	PA	CA	PA	CA	PA
I Initial estimate of overall requirements:												
(a) Staff and administrative operating expenditure	—	—	80	80	132	132	134	134	116	116	462	462
(b) Contracts	—	—	70	68	100	90	100	90	18	40	288	288
Total	—	—	150	148	232	222	234	224	134	156	750	750
II Revised estimate of expenditure with additional requirements resulting from the participation of non-member States	—	—	150	148	232	222	234	224	134	156	750	750
	+	+	+	+	+	+	+	+	+	+	+	+
	—	—	n x 12	n x 12	n x 19	n x 18	n x 20	n x 19	n x 11	n x 13	n x 62	n x 62
III Difference between I and II to be covered by contributions from participating non-member States	—	—	n x 12	n x 12	n x 19	n x 18	n x 20	n x 19	n x 11	n x 13	n x 62	n x 62

n : number of participating non-member States.

CA: commitment appropriations.

PA: payment appropriations.

**Community-COST Concertation Agreement
on a concerted action project in the field of
aquatic primary biomass (marine macroalgae)**

(COST Project 48)

Decision of Community programmes: 12.3.1985

Date of entry into force of the action: 25.9.1986

Duration: 31.12.1989

Contracting Parties	Date of signing	Date of entry into force
EC	25.9.1986	25.9.1986
Norway	25.9.1986	25.9.1986

**Synoptic tables
of the other COST Projects in force
on 1 January 1985**

The texts of the Projects signed prior to 1 January 1985 are contained in Volume 1 (1971-80), Volume 2 (1981-82) and Volume 3 (1983-84) of the Collected COST Agreements.

**Convention
establishing the European Centre
for Medium-Range Weather Forecasts**

(COST 70)¹

Date of entry into force of the action: 1.10.1975

Duration: unlimited

Contracting Parties	Date of signing	Date of entry into force
Belgium	7.5.1973	1.10.1975
Denmark	7.5.1973	1.10.1975
Germany (FR of)	7.5.1973	1.10.1975
France	7.5.1973	1.10.1975
Ireland	7.5.1973	1.10.1975
Italy	7.5.1973	1.9.1977
Netherlands	7.5.1973	1.10.1975
United Kingdom	7.5.1973	1.10.1975
Greece	7.5.1973	1.9.1976
Spain	7.5.1973	1.10.1975
Yugoslavia	7.5.1973	1.10.1975
Austria	7.5.1973	1.10.1975
Portugal	7.5.1973	1.1.1976
Switzerland	7.5.1973	1.10.1975
Finland	7.5.1973	1.10.1975
Sweden	7.5.1973	1.10.1975
Turkey	2.11.1975	1.5.1976

¹ COST Projects, Vol. 1, p. 87.

**Memorandum of Understanding
for the implementation of a European project
on optical fibre communication systems**

(COST 208)¹

Date of entry into force: 15.12.1977

Duration: 14.12.1980²

Contracting Parties	Date of signing by the Contracting Parties	Date of entry into force
Belgium	14.6.1978	14.6.1978
Denmark	14.6.1978	14.6.1978
Germany (FR of)	15.12.1977	15.12.1977
France	15.12.1977	15.12.1977
Ireland	15.12.1977	15.12.1977
Italy	15.12.1977	15.12.1977
Netherlands	14.6.1978	14.6.1978
United Kingdom	15.12.1977	15.12.1977
Spain	15.12.1977	15.12.1977
Switzerland	19.5.1978	19.5.1978
Finland	19.5.1978	19.5.1978
Sweden	15.12.1977	15.12.1977

¹ COST Projects, Vol. 1, p. 155.

² Extended until 14.12.1987.

**Memorandum of Understanding
for the implementation of a European research project
on measurement of precipitation by radar**

(COST 72)¹

Date of entry into force: 14.12.1979

Duration: 13.12.1984

Contracting Parties	Date of signing by the Contracting Parties	Date of entry into force
Denmark	13.6.1980	13.6.1980
Germany (FR of)	11.12.1980	11.12.1980
France	14.12.1979	14.12.1979
Italy	5.12.1985	5.12.1985
Netherlands	14.12.1979	14.12.1979
United Kingdom	14.12.1979	14.12.1979
Austria	26.9.1984	26.9.1984
Portugal	19.11.1981	19.11.1981
Switzerland	13.6.1980	13.6.1980
Finland	14.12.1979	14.12.1979
Sweden	13.6.1980	13.6.1980

¹ COST Projects, Vol. 1, p. 251.

**Memorandum of Understanding
for the implementation of a European research project
on high temperature materials for conventional systems of energy generation
and conversion using fossil fuels**

(COST 501)¹

Date of entry into force: 23.11.1981

Duration: 22.11.1986

Contracting Parties	Date of signing by the Contracting Parties	Date of entry into force
EAEC	23.11.1981	23.11.1981
Belgium	7.10.1982	7.10.1982
Denmark	23.11.1981	23.11.1981
Germany (FR of)	23.11.1981	23.11.1981
France	23.11.1981	23.11.1981
Ireland	7.11.1983	7.11.1983
Italy	23.11.1981	23.11.1981
Netherlands	23.11.1981	23.11.1981
United Kingdom	23.11.1981	23.11.1981
Norway	23.11.1981	23.11.1981
Austria	23.11.1981	23.11.1981
Switzerland	23.11.1981	23.11.1981
Finland	23.11.1981	23.11.1981
Sweden	23.11.1981	23.11.1981

¹ COST Projects, Vol. 2, p. 61.

**Memorandum of Understanding
for the implementation of a European research project
on the use of alternative fuels in road vehicles**

(COST 304)¹

Date of entry into force of the action: 13.5.1982

Duration: 12.11.1985

Contracting Parties	Date of signing	Date of entry into force
EC	30.7.1982	30.7.1982
Denmark	13.5.1982	13.5.1982
Germany (FR of)	10.6.1982	10.6.1982
France	17.3.1983	17.3.1983
Ireland	7.11.1983	7.11.1983
Netherlands	13.7.1983	13.7.1983
Norway	13.5.1982	13.5.1982
Switzerland	11.11.1982	11.11.1982
Finland	13.5.1982	13.5.1982
Sweden	13.5.1982	13.5.1982

¹ COST Projects, Vol. 2, p. 83.

**Memorandum of Understanding
for the implementation of a European research project
on the technical and economic conditions for the use of electric road vehicles**

(COST 302)¹

Date of entry into force of the action: 16.6.1982

Duration: 15.12.1985

Contracting Parties	Date of signing	Date of entry into force
EC	15.12.1982	15.12.1982
Belgium	13.9.1983	13.9.1983
Denmark	16.6.1982	16.6.1982
Germany (FR of)	16.6.1982	16.6.1982
France	18.11.1982	18.11.1982
Ireland	7.11.1983	7.11.1983
Italy	14.11.1983	14.11.1983
United Kingdom	16.6.1982	16.6.1982
Austria	14.12.1982	14.12.1982
Switzerland	30.11.1982	30.11.1982
Finland	15.12.1982	15.12.1982
Sweden	16.6.1982	16.6.1982

¹ COST Projects, Vol. 2, p. 107.

**Memorandum of Understanding
on the implementation of a European project
on redundancy reduction techniques for coding of broadband video signals**

(COST 211 bis)¹

Date of entry into force of the action: 9.12.1982

Duration: 8.12.1986

Contracting Parties	Date of signing	Date of entry into force
Belgium	6.3.1985	6.3.1985
Denmark	9.12.1982	9.12.1982
Germany (FR of)	3.2.1983	3.2.1983
France	9.12.1982	9.12.1982
Italy	17.5.1983	17.5.1983
Netherlands	9.12.1982	9.12.1982
United Kingdom	9.12.1982	9.12.1982
Norway	4.10.1983	4.10.1983
Finland	10.3.1983	10.3.1983
Sweden	9.12.1982	9.12.1982

¹ COST Projects, Vol. 2, p. 147.

**Memorandum of Understanding
for the implementation of a European research project
on corrosion in the construction industry**

(COST 502)¹

Date of entry into force: 10.2.1983

Duration: 9.2.1986

Contracting Parties	Date of signing	Date of entry into force
EC	14.3.1983	14.3.1983
Belgium	30.11.1983	30.11.1983
Denmark	10.2.1983	10.2.1983
Germany (FR of)	10.2.1983	10.2.1983
Netherlands	13.7.1983	13.7.1983
United Kingdom	10.2.1983	10.2.1983
Austria	16.1.1984	16.1.1984
Finland	10.2.1983	10.2.1983
Sweden	10.2.1983	10.2.1983

¹ COST Projects, Vol. 3, p. 19.

**Memorandum of Understanding
for the implementation of a European research project
on castings technology**

(COST 504)¹

Date of entry into force: 10.2.1983

Duration: 9.2.1986

Contracting Parties	Date of signing	Date of entry into force
EC	14.3.1983	14.3.1983
Belgium	30.11.1983	30.11.1983
Germany (FR of)	10.2.1983	10.2.1983
France	10.2.1983	10.2.1983
Netherlands	23.12.1985	23.12.1985
United Kingdom	10.2.1983	10.2.1983
Austria	16.1.1984	16.1.1984
Switzerland	2.8.1983	2.8.1983
Finland	10.2.1983	10.2.1983
Sweden	10.2.1983	10.2.1983

¹ COST Projects, Vol. 3, p. 29.

**Community-COST Concertation Agreement
on a concerted action project
in the field of shore-based
marine navigation aid systems**

(COST 301)¹

Decision of Community programmes: 13.12.1982

Date of entry into force: 1.2.1984

Duration: 31.12.1985²

Contracting Parties	Date of signing	Date of entry into force
EC	15.4.1983	1.2.1984
Spain	20.12.1983	²
Norway	20.12.1983	1.2.1984
Finland	15.4.1983	²
Sweden	30.5.1983	²

¹ COST Projects, Vol. 3, p. 41.

² At the date of publication of this volume, Spain, Finland and Sweden had not ratified this Agreement.

**Memorandum of Understanding
for the implementation of a European research project
on powder metallurgy**

(COST 503)¹

Date of entry into force: 21.4.1983

Duration: 20.4.1986

Contracting Parties	Date of signing	Date of entry into force
EC	7.6.1983	7.6.1983
Belgium	5.10.1983	5.10.1983
Denmark	21.4.1983	21.4.1983
Germany (FR of)	21.4.1983	21.4.1983
France	21.4.1983	21.4.1983
Luxembourg	20.10.1983	20.10.1983
United Kingdom	21.4.1983	21.4.1983
Austria	26.3.1984	26.3.1984
Switzerland	2.8.1983	2.8.1983
Finland	11.1.1984	11.1.1984
Sweden	21.4.1983	21.4.1983

¹ COST Projects, Vol. 3, p. 53.

**Agreement
between the European Economic Community and
the Swiss Confederation
extending and amending the Agreement
on a concerted action project in the field of
registration of congenital abnormalities
(medical and public health research)**

(Medical research I)¹

Decision of Community programmes: 17.8.1982

Date of entry into force: 1.1.1982

Duration: 31.12.1986

Contracting Parties	Date of signing	Date of entry into force
EC	3.5.1983	3.5.1983
Switzerland	3.5.1983	3.5.1983

¹ COST Projects, Vol. 3, p. 62.

**Agreement
between the European Economic Community
and the Swiss Confederation
on a concerted action project
in the field of cellular ageing**

(Medical research III)¹

Decision of Community programmes: 17.8.1982
Date of entry into force: 4.5.1983
Duration: 31.12.1986

Contracting Parties	Date of signing	Date of entry into force
EC	4.5.1983	4.5.1983
Switzerland	4.5.1983	4.5.1983

¹ COST Projects, Vol. 3, p. 73.

**Community-COST Concertation Agreement
on a concerted action project on the effect of processing on the
physical properties of foodstuffs**

(COST 90 bis)¹

Decision of Community programmes: 22.11.1982
Date of entry into force: 1.1.1983
Duration: 15.12.1986

Contracting Parties	Date of signing	Date of entry into force
EC	9.12.1982	1.1.1983
Switzerland	4.5.1983	1.8.1983
Sweden	9.12.1982	1.1.1983

¹ COST Projects, Vol. 3, p. 83.

**Memorandum of Understanding
for carrying out a European research project
on *in vitro* cultures for the purification and
propagation of plants**

(COST 87)¹

Date of entry into force: 15.6.1983
Duration: 14.6.1986

Contracting Parties	Date of signing	Date of entry into force
Belgium	15.6.1983	15.6.1983
Denmark	13.12.1983	13.12.1983
Germany (FR of)	15.6.1983	15.6.1983
France	24.4.1985	24.4.1985
Ireland	15.6.1983	15.6.1983
Italy	15.11.1983	15.11.1983
Netherlands	15.6.1983	15.6.1983
United Kingdom	15.6.1983	15.6.1983
Spain	25.2.1985	25.2.1985
Norway	15.6.1983	15.6.1983
Switzerland	15.6.1983	15.6.1983
Sweden	15.6.1983	15.6.1983

¹ COST Projects, Vol. 3, p. 95.

**Cooperation Agreement
between the European Economic Community and the Kingdom of Sweden
on a European research and development programme
in the field of wood as a renewable raw material**

(Wood)¹

Decision of Community programmes: 17.5.1982
Date of entry into force: 1.7.1983
Duration: 31.12.1985

Contracting Parties	Date of signing	Date of entry into force
EC	28.6.1983	1.7.1983
Sweden	28.6.1983	1.7.1983

¹ COST Projects, Vol. 3, p. 105.

**Memorandum of Understanding
for the implementation of a European research project
on systems of socio-technologies and
industrial safety**

(COST A 1)¹

Date of entry into force: 22.9.1983
Duration: 21.9.1988

Contracting Parties	Date of signing	Date of entry into force
EC	15.3.1984	15.3.1984
Germany (FR of)	20.10.1983	20.10.1983
France	15.12.1983	15.12.1983
Netherlands	22.9.1983	22.9.1983
United Kingdom	22.9.1983	22.9.1983
Finland	22.9.1983	22.9.1983
Sweden	18.3.1985	18.3.1985

¹ COST Projects, Vol. 3, p. 107.

**Memorandum of Understanding
for the implementation of a European research project
on materials for steam turbines**

(COST 505)¹

Date of entry into force: 6.10.1983
Duration: 5.10.1986

Contracting Parties	Date of signing	Date of entry into force
EC	2.12.1983	2.12.1983
Belgium	6.10.1983	6.10.1983
Denmark	25.10.1984	25.10.1984
Germany (FR of)	6.10.1983	6.10.1983
Italy	5.12.1984	5.12.1984
United Kingdom	6.10.1983	6.10.1983
Austria	24.7.1984	24.7.1984
Switzerland	29.3.1984	29.3.1984
Finland	6.10.1983	6.10.1983
Sweden	6.10.1983	6.10.1983

¹ COST Projects, Vol. 3, p. 127.

**Memorandum of Understanding
for the implementation of a European research project on antennae in the 1990s —
electronically steered antennae for future satellite and terrestrial communications**

(COST 213)¹

Date of entry into force: 31.10.1984

Duration: 30.10.1987

Contracting Parties	Date of signing	Date of entry into force
Belgium	23.1.1985	23.1.1985
Denmark	19.3.1986	19.3.1986
Germany (FR of)	19.3.1986	19.3.1986
France	31.10.1984	31.10.1984
Italy	19.9.1985	19.9.1985
Netherlands	31.10.1984	31.10.1984
United Kingdom	31.10.1984	31.10.1984
Switzerland	31.10.1984	31.10.1984
Finland	31.10.1984	31.10.1984
Sweden	31.10.1984	31.10.1984
ESA	25.3.1985	25.3.1985

¹ COST Projects, Vol. 3, p. 139.

**Agreement
on the setting-up of an
experimental European network
of ocean stations**

(COST 43 bis)¹

Date of entry into force: 1.12.1984

Duration: 30.11.1988

Contracting Parties	Date of signing	Date of entry into force
Belgium	21.11.1983	1.12.1984
Denmark	21.11.1983	1.12.1984
France	15.12.1983	20.8.1985
Netherlands	21.11.1983	1.12.1984
United Kingdom	21.11.1983	1.12.1984
Ireland	Accession	19.4.1985
Spain	1.3.1984	12.9.1985
Portugal	3.4.1984	²
Norway	21.11.1983	1.12.1984
Finland	21.11.1983	1.12.1984
Sweden	21.11.1983	1.12.1984
Iceland	16.12.1983	21.3.1985

¹ COST Projects, Vol. 3, p. 151.

² At the date of publication of this volume, Portugal had not ratified this Agreement.

**Memorandum of Understanding
for the implementation of a European research project
on a data system for the study of demand for
interregional passenger transport**

(COST 305)¹

Date of entry into force: 27.2.1984
Duration: 26.2.1987

Contracting Parties	Date of signing	Date of entry into force
EC	27.2.1984	27.2.1984
Belgium	23.1.1985	23.1.1985
Germany (FR of)	27.2.1984	27.2.1984
France	27.2.1984	27.2.1984
Netherlands	20.12.1984	20.12.1984
Switzerland	29.3.1984	29.3.1984
Finland	13.4.1984	13.4.1984
Sweden	27.2.1984	27.2.1984

¹ COST Projects, Vol. 3, p. 167.

**Agreement extending and amending the Cooperation Agreement between the
European Economic Community and the Kingdom of Sweden
on a European research and development programme in the field
of the recycling of urban and industrial waste**

(Recycling)¹

Decision of Community programmes: 12.12.1983
Date of entry into force: 1.11.1983
Duration: 31.12.1985

Contracting Parties	Date of signing	Date of entry into force
EC	29.2.1984	1.11.1983
Sweden	29.2.1984	1.11.1983

¹ COST Projects, Vol. 3, p. 177.

**Memorandum of Understanding
for the implementation of a
European research project on
wideband digital local telecommunication networks**

(COST 202 bis)¹

Date of entry into force: 5.4.1984

Duration: 4.4.1987

Contracting Parties	Date of signing	Date of entry into force
Belgium	14.3.1984	14.3.1984
Denmark	29.3.1984	29.3.1984
Germany (FR of)	23.5.1984	23.5.1984
France	17.10.1984	17.10.1984
Ireland	12.9.1984	12.9.1984
Italy	25.7.1984	25.7.1984
Netherlands	14.3.1984	14.3.1984
United Kingdom	14.3.1984	14.3.1984
Switzerland	31.10.1984	31.10.1984
Finland	13.4.1984	13.4.1984
Sweden	5.4.1984	5.4.1984

¹ COST Projects, Vol. 3, p. 185.

**Memorandum of Understanding
for the implementation of a
European research project on
digital land mobile radio communications**

(COST 207)¹

Date of entry into force: 13.4.1984

Duration: 12.4.1987

Contracting Parties	Date of signing	Date of entry into force
Belgium	14.3.1984	14.3.1984
Denmark	24.4.1985	24.4.1985
Germany (FR of)	23.5.1984	23.5.1984
France	7.6.1984	7.6.1984
Italy	25.7.1984	25.7.1984
Netherlands	14.3.1984	14.3.1984
United Kingdom	14.3.1984	14.3.1984
Austria	14.3.1984	14.3.1984
Switzerland	15.10.1984	15.10.1984
Finland	13.4.1984	13.4.1984
Sweden	5.4.1984	5.4.1984

¹ COST Projects, Vol. 3, p. 195.

**Memorandum of Understanding
for the implementation of a
European research project on
man-machine communication by means of speech signals**

(COST 209)¹

Date of entry into force: 4.4.1984

Duration: 3.4.1987

Contracting Parties	Date of signing	Date of entry into force
Belgium	24.7.1985	24.7.1985
Denmark	4.4.1984	4.4.1984
Germany (FR of)	23.5.1984	23.5.1984
France	4.4.1984	4.4.1984
Italy	25.7.1984	25.7.1984
Netherlands	23.5.1984	23.5.1984
United Kingdom	4.4.1984	4.4.1984
Finland	4.4.1984	4.4.1984
Sweden	4.4.1984	4.4.1984

¹ COST Projects, Vol. 3, p. 207.

**Memorandum of Understanding
for the implementation of a European research
project on the influence of the atmosphere on
interference between radio communication systems at
frequencies above 1 GHz**

(COST 210)¹

Date of entry into force: 7.6.1984

Duration: 6.6.1989

Contracting Parties	Date of signing	Date of entry into force
Belgium	24.4.1985	24.4.1985
Denmark	7.6.1984	7.6.1984
Germany (FR of)	12.9.1984	12.9.1984
France	17.10.1984	17.10.1984
Ireland	12.9.1984	12.9.1984
Italy	25.4.1985	25.4.1985
Netherlands	7.6.1984	7.6.1984
United Kingdom	7.6.1984	7.6.1984
Austria	24.4.1985	24.4.1985
Sweden	7.6.1984	7.6.1984

¹ COST Projects, Vol. 3, p. 219.

**Memorandum of Understanding
on the implementation of a European research project
on coding and transmission of
high definition television signals**

(COST 206)¹

Date of entry into force: 12.9.1984

Duration: 11.3.1990

Contracting Parties	Date of signing	Date of entry into force
Belgium	23.1.1985	23.1.1985
Germany (FR of)	12.9.1984	12.9.1984
France	12.9.1984	12.9.1984
Italy	12.9.1984	12.9.1984
Sweden	12.9.1984	12.9.1984

¹ COST Projects, Vol. 3, p. 233.

Recapitulatory tables

These tables contain all the Projects signed in 1985 and 1986 and the Projects signed previously which were still in force on 1 January 1985, the latter being indicated in italics.

COST Projects (Categories I and II)

Projects	Informatics		Trans- port	Oceano- graphy	Environ- ment	Agriculture		Food technology		Medical research		Wood	Recycling
	11ter	13	301	48	611, 641 681, 647 612	84 bis	87	90 bis	91 bis	I	III		
Decision of Community programmes													
Signatories	22.11.1984	22.11.1984	13.12.1982	12.3.1985	3.3.1981	2.4.1984	12.5.1985	22.11.1982	24.5.1984	*17.8.1982	17.8.1982	17.5.1982	
European Communities	18.11.1985	4.12.1985	14.5.1986		13.3.1985	31.10.1985	25.9.1986	9.11.1985	7.11.1985	3.5.1983	4.5.1983	28.6.1983	29.2.1984
Spain													
Yugoslavia	18.11.1985												
Norway	18.11.1985	4.12.1986	14.5.1986	25.9.1986	13.3.1985		25.9.1986						
Austria	18.11.1985	4.12.1986											
Portugal													
Switzerland	18.11.1985	4.12.1986			13.6.1985	19.11.1985	25.9.1986	4.5.1983	19.11.1985	3.5.1983	4.5.1983		
Finland	18.11.1985	4.12.1986	14.5.1986		21.3.1985		25.9.1986		28.11.1985				
Sweden	18.11.1985	4.12.1986	14.5.1986		25.4.1985		25.9.1986	9.12.1982	14.11.1985			28.6.1983	29.2.1984
Turkey													
Entry into force	1.12.1985	1.1.1986	1.1.1986	25.9.1986	1.4.1985	1.12.1985	1.12.1985	1.1.1983	1.12.1985				1.11.1983
End of the Project	21.11.1986	21.11.1986	31.12.1986	31.12.1989	31.12.1986	1.4.1988	14.6.1988	15.12.1986	7.6.1988				
Extension										31.12.1986	31.12.1986	31.12.1985	31.12.1985
Category	II	II	II	II	II	II	II	II	II	I	I	I	I

COST Projects (Categories III and IV)

Projects	Telecommunications														Transport	
	202 bis	206	207	208	209	210	211 bis	212	213	214	215	216	217	219	302	304
Signatories																
Belgium	14.3.84	23.1.85	14.3.84	14.3.78	24.7.85	24.4.85	6.3.85		23.1.85		1.8.85				13.9.83	
Denmark	29.3.84		24.4.85	14.6.78	4.4.84	7.6.84	9.12.82	26.6.86	19.3.86	13.2.85	11.7.85	27.2.86	25.9.86	25.9.86	16.6.82	13.5.82
FR of Germany	23.5.84	12.9.84	23.5.84	15.12.77	23.5.84	12.9.84	3.2.83		19.3.86		11.6.86		25.9.86		16.6.82	10.6.82
France	17.10.84	12.9.84	7.6.84	15.12.77	4.4.84	17.10.84	9.12.82		31.10.84	13.2.85	3.10.85	27.2.86		25.9.86	18.11.82	17.3.83
Ireland	12.9.84			15.12.77		12.9.84				13.8.85					7.11.83	7.11.83
Italy	25.7.84	12.9.84	25.7.84	15.12.77	25.7.84	25.4.85	17.5.85	25.8.86	19.9.85	12.3.86	3.1.86	22.2.86	24.3.87		14.11.83	
Luxembourg																
Netherlands	14.3.84		14.3.84	14.6.78	23.5.84	7.6.84	9.12.82		31.10.84	13.2.85	9.10.86	3.7.86	18.12.86	6.11.86		13.7.83
United Kingdom	14.3.84		14.3.84	15.12.77	4.4.84	7.6.84	9.12.82		31.10.84	13.2.85	11.7.85	27.2.86	25.9.86	25.9.86	16.6.82	
Greece																
Spain				15.12.77												
Yugoslavia																
Norway							4.10.83				17.12.86			25.9.86		13.5.82
Austria			14.3.84			24.4.85					7.10.86				14.12.82	
Portugal										13.8.85						
Switzerland	31.10.84		15.10.84	19.5.78					31.10.84		11.7.85	28.4.86	19.12.86		30.11.82	11.11.82
Finland	13.4.84		13.4.84	19.5.78	4.4.84		10.3.83	26.3.86	31.10.84	13.2.85	11.7.85	27.2.86	25.9.86	25.9.86	15.12.82	13.5.82
Sweden	5.4.84	12.9.84	5.4.84	15.12.77	4.4.84	7.6.84	9.12.82	26.3.86	31.10.84	13.2.85	14.11.85	24.3.86		18.12.86	16.6.82	13.5.82
Turkey													22.12.86			
Iceland																
ESA									23.3.85							
EC															15.12.82	30.7.82
Entry into force	5.4.84	12.9.84	14.3.84	15.12.77	4.4.84	7.6.84	9.12.82	25.8.86	31.10.84	13.2.85	11.7.85	27.2.86	25.9.86	25.9.86	16.6.82	13.5.82
End of Project	4.4.87	11.9.89	13.3.87		3.4.87	6.6.89	8.12.82	26.8.89	30.10.87	12.2.88	10.7.90	26.2.91	24.9.91	24.9.89	15.12.85	12.11.85
Extension ¹				14.12.84												
Category	IV	IV	IV	IV	IV	IV	IV		IV						III	III
Type of Agreement ²	MoU	MoU	MoU	MoU	MoU	MoU	MoU	MoU	MoU	MoU	MoU	MoU	MoU	MoU	MoU	MoU

¹ COST 70 for an unlimited period.

² MoU = Memorandum of Understanding; Internat. = International Convention or Agreement.

Transport			Oceanography	Metallurgy and materials science						Meteorology			Agriculture		Socio-technologies	Medical research
305	306	308	43 bis	501	502	503	504	505	506	70	72	73	87	88	A 1	B 1
23.1.85			21.11.83	7.10.82	30.11.83	5.10.83	30.11.83	6.10.83		7.5.73		16.10.86	15.6.83			
	1.12.86	22.10.86	21.11.83	23.11.81	10.2.83	21.4.83		25.10.83		7.5.73	13.6.80		13.12.83	27.11.86		24.2.86
27.2.84	22.10.86			23.11.81	10.2.83	21.4.83	10.2.83	6.10.83		7.5.73	11.12.80	25.9.86	15.6.83	27.11.86	20.10.83	10.4.86
27.2.84	22.10.86	22.10.86	15.12.85	23.11.81		21.4.83	10.2.83	5.12.84		7.5.73	14.12.79	25.9.86	24.4.85	27.11.86	15.12.83	24.2.86
				7.11.83						7.5.73			15.6.83			
				23.11.81						7.5.73	5.12.85	25.9.86	15.11.83			
						20.10.89										
20.12.84	15.1.87		21.11.83	23.11.81	13.7.83		23.12.85		10.12.86	7.5.73	14.12.79	25.9.86	15.6.83	27.11.86	22.9.83	
	22.10.86	22.10.86	21.11.83	23.11.81	10.2.83	21.4.83	10.2.83	6.10.83		7.5.73	14.12.79	25.9.86	15.6.83		22.9.83	
										7.5.73						
9.10.86	22.10.86	22.10.86	1.3.84						10.12.86	7.5.73			25.2.85			
										7.5.73						
			21.11.83	23.11.81									15.6.83			24.2.86
				23.11.81	16.1.84	26.3.84	16.1.84	24.7.84	10.12.86	7.5.73	26.9.84	24.3.87				
			3.4.84							7.5.73	19.11.81	25.2.87				
29.3.84				23.11.81		2.8.83	2.8.83	29.3.84	10.12.86	7.5.73	13.6.80	16.10.86	15.6.83	27.11.86		28.4.86
13.4.84	22.10.86		21.11.83	23.11.81	10.2.83	11.1.84	10.2.83	6.10.83	10.12.86	7.5.73	14.12.79	25.2.86		27.11.86	22.9.83	24.2.86
27.2.84			21.11.83	23.11.81	10.2.83	21.4.83	10.2.83	6.10.83		7.5.73	13.6.80		15.6.83	27.11.86	18.3.85	24.2.86
										2.11.75				27.11.86		
			16.12.83													
27.2.84				23.11.81	14.3.83	7.6.83	14.3.83	2.12.83							15.3.84	
27.2.84	22.10.86	20.10.86	21.11.83	23.11.81	10.2.83	21.4.83	10.2.83	6.10.83	10.12.86	1.10.75	14.12.79	25.9.86	15.6.83	27.11.86	22.9.83	24.2.86
26.2.87	22.10.89	21.10.89	20.11.87	22.11.86	9.2.86	20.4.86	9.2.86	5.10.86	9.12.86	1	13.12.84	24.9.91	14.6.83	26.11.91	21.9.88	23.2.91
III			IV	III	III	III	III	III		IV	IV		IV		III	
MoU	MoU	MoU	Internat.	MoU	MoU	MoU	MoU	MoU	MoU	Internat	MoU	MoU	MoU	MoU	MoU	MoU

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¹ This alphabetical index classifies and cross-references the Projects according to the Contracting Parties and the subject-matter of the Project.

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				cation	
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COST 91 bis	75	COST 306	183		
COST 215	39				
COST 216	115				
COST 217	161				
COST 506	217				
COST 73	137				
COST 88	207				

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